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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:18:29 ; Search time 50.9091 Seconds  
(without alignments)  
628.495 Million cell updates/sec

Title: US-09-869-169C-11  
Perfect score: 18  
Sequence: 1 gggctgtctgtggtgcgc 18

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued Patents NA:\*

1: /cgn2\_6/ptodata/1/ina/1\_COMB.seq:\*

2: /cgn2\_6/ptodata/1/ina/5\_COMB.seq:\*

3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*

4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*

5: /cgn2\_6/ptodata/1/ina/H\_COMB.seq:\*

6: /cgn2\_6/ptodata/1/ina/PTUS\_COMB.seq:\*

7: /cgn2\_6/ptodata/1/ina/PTUS\_COMB.seq:\*

8: /cgn2\_6/ptodata/1/ina/RE\_COMB.seq:\*

9: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16.4	91.1	1254	3	US-10-085-612A-4
2	16.4	91.1	14438	3	US-09-949-016-12300
3	16.4	91.1	35803	3	US-09-949-016-11863
4	16.4	91.1	35804	3	US-09-949-016-12952
5	16.4	91.1	103934	3	US-09-949-016-14433
6	15.4	85.6	2470	3	US-09-091-725-18
7	15.4	85.6	2546	3	US-09-091-725-12
8	15.4	85.6	4403765	3	US-09-103-840A-2
9	15.4	85.6	4411529	3	US-09-103-840A-1
10	15	83.3	601	3	US-09-949-016-179785
11	15	83.3	601	3	US-09-949-016-187895
12	15	83.3	29393	3	US-09-949-016-17024
13	15	83.3	43267	3	US-09-949-016-17034
14	15	83.3	390416	3	US-09-949-016-16923
15	14.8	82.2	601	3	US-09-949-016-177364
16	14.8	82.2	601	3	US-09-949-002-2054
17	14.8	82.2	601	3	US-09-949-002-2055
18	14.8	82.2	1053	3	US-09-533-559-1378
19	14.8	82.2	1055	3	US-09-215-131-3
20	14.8	82.2	1055	3	US-09-232-734-3
21	14.8	82.2	2065	3	US-10-104-047-920
22	14.8	82.2	2091	3	US-09-902-540-7268
23	14.8	82.2	2527	3	US-09-555-790A-1
24	14.8	82.2	2527	3	US-09-202-047A-1

Sequence 7563, Ap	3	US-09-902-540-7563	5244	82.2	14.8	C	25
Sequence 738, App	3	US-09-902-540-738	6289	82.2	14.8	C	26
Sequence 1056, Ap	3	US-09-902-540-1056	12299	82.2	14.8	C	27
Sequence 622, App	3	US-09-949-002-622	27271	82.2	14.8	C	28
Sequence 1806, A	3	US-09-949-016-1806	32244	82.2	14.8	C	29
Sequence 12352, A	3	US-09-949-016-12352	34312	82.2	14.8	C	30
Sequence 14386, A	3	US-09-949-016-14386	61399	82.2	14.8	C	31
Sequence 12511, A	3	US-09-949-016-12511	100463	82.2	14.8	C	32
Sequence 13725, A	3	US-09-949-016-13725	100468	82.2	14.8	C	33
Sequence 13945, A	3	US-09-949-016-13945	117391	82.2	14.8	C	34
Sequence 730, App	3	US-09-949-002-730	131860	82.2	14.8	C	35
Sequence 2536, A	3	US-09-949-016-2536	601	80.0	14.4	C	36
Sequence 56117, A	3	US-09-949-016-56117	601	80.0	14.4	C	37
Sequence 56118, A	3	US-09-949-016-56118	601	80.0	14.4	C	38
Sequence 56119, A	3	US-09-949-016-56119	601	80.0	14.4	C	39
Sequence 59435, A	3	US-09-949-016-59435	601	80.0	14.4	C	40
Sequence 134147, A	3	US-09-949-016-134147	601	80.0	14.4	C	41
Sequence 134148, A	3	US-09-949-016-134148	601	80.0	14.4	C	42
Sequence 1, Appli	3	US-08-374-077C-1	8075	80.0	14.4	C	43
Sequence 1, Appli	3	US-08-895-590-1	8075	80.0	14.4	C	44
Sequence 1, Appli	3	US-09-539-879A-1	8075	80.0	14.4	C	45
Sequence 12123, A	3	US-09-949-016-12123	17730	80.0	14.4	C	46
Sequence 13472, A	3	US-09-949-016-13472	17731	80.0	14.4	C	47
Sequence 3, Appli	3	US-09-849-334-3	19025	80.0	14.4	C	48
Sequence 3, Appli	3	US-10-274-878-3	19025	80.0	14.4	C	49
Sequence 13305, A	3	US-10-697-266-3	19025	80.0	14.4	C	50
Sequence 13375, A	3	US-09-949-016-13375	68452	80.0	14.4	C	51
Sequence 12748, A	3	US-09-949-016-12748	70262	80.0	14.4	C	52
Sequence 13637, A	3	US-09-949-016-13637	79787	80.0	14.4	C	53
Sequence 623, App	3	US-09-949-002-623	90923	80.0	14.4	C	54
Sequence 789, App	3	US-09-949-002-789	90923	80.0	14.4	C	55
Sequence 12173, A	3	US-09-949-016-12173	221958	80.0	14.4	C	56
Sequence 15498, A	3	US-09-949-016-15498	221966	80.0	14.4	C	57
Sequence 17175, A	3	US-09-949-016-17175	227250	80.0	14.4	C	58
Sequence 1, Appli	3	US-09-768-185A-1	325791	80.0	14.4	C	59
Patent No. 5506118	9	5506118-11	204	77.8	14	C	60
Sequence 15251, A	3	US-09-621-976-15251	577	77.8	14	C	61
Sequence 94143, A	3	US-09-949-016-94143	601	77.8	14	C	62
Sequence 138651, A	3	US-09-949-016-138651	601	77.8	14	C	63
Sequence 196036, A	3	US-09-949-016-196036	601	77.8	14	C	64
Sequence 196037, A	3	US-09-949-016-196037	866	77.8	14	C	65
Sequence 430, App	3	US-10-104-047-430	2699	77.8	14	C	66
Sequence 4, Appli	2	US-08-785-310A-4	4184	77.8	14	C	67
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Sequence 12979, A	3	US-09-949-016-12979	24715	77.8	14	C	69
Sequence 1, Appli	3	US-09-536-059-1	41594	77.8	14	C	70
Sequence 17511, A	3	US-09-949-016-17511	44676	77.8	14	C	71
Sequence 16677, A	3	US-09-949-016-16677	61847	77.8	14	C	72
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Sequence 15654, A	3	US-09-949-016-15654	194889	77.8	14	C	74
Sequence 40, Appli	3	US-08-857-636-40	20	76.7	13.8	C	75
Sequence 49, Appli	3	US-08-916-140-49	20	76.7	13.8	C	76
Sequence 29, Appli	6	PCT-US95-05980-29	185	76.7	13.8	C	77
Sequence 7989, App	3	US-09-902-540-7989	362	76.7	13.8	C	78
Sequence 8237, App	3	US-09-621-976-8237	432	76.7	13.8	C	79
Sequence 3641, App	3	US-09-543-681A-3641	453	76.7	13.8	C	80
Sequence 4007, App	3	US-09-513-999C-4007	463	76.7	13.8	C	81
Sequence 7269, App	3	US-09-252-991A-7269	492	76.7	13.8	C	82
Sequence 45790, A	3	US-09-949-016-45790	601	76.7	13.8	C	83
Sequence 45791, A	3	US-09-949-016-45791	601	76.7	13.8	C	84
Sequence 50868, A	3	US-09-949-016-50868	601	76.7	13.8	C	85
Sequence 77688, A	3	US-09-949-016-77688	601	76.7	13.8	C	86
Sequence 86434, A	3	US-09-949-016-86434	601	76.7	13.8	C	87
Sequence 107334, A	3	US-09-949-016-107334	601	76.7	13.8	C	88
Sequence 107335, A	3	US-09-949-016-107335	601	76.7	13.8	C	89
Sequence 137071, A	3	US-09-949-016-137071	601	76.7	13.8	C	90
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98	13.8	76.7	601.3	US-09-949-016-189166	Sequence 189166,	171	13.8	76.7	3237.3	US-08-451-946B-5	Sequence 5, Appli
99	13.8	76.7	601.3	US-09-949-016-193101	Sequence 193101,	172	13.8	76.7	3237.3	US-08-446-938B-5	Sequence 5, Appli
100	13.8	76.7	601.3	US-09-949-016-193194	Sequence 193194,	173	13.8	76.7	3237.3	US-08-411-703A-5	Sequence 5, Appli
101	13.8	76.7	601.3	US-09-949-016-193287	Sequence 193287,	174	13.8	76.7	3237.3	US-08-446-939B-5	Sequence 5, Appli
102	13.8	76.7	601.3	US-09-949-016-193380	Sequence 193380,	175	13.8	76.7	3237.3	US-09-183-543-5	Sequence 5, Appli
103	13.8	76.7	601.3	US-09-949-016-206859	Sequence 206859,	176	13.8	76.7	3237.3	US-08-446-936A-5	Sequence 5, Appli
104	13.8	76.7	645.3	US-09-533-559-6571	Sequence 6571, Ap	177	13.8	76.7	3237.6	PCT-US92-09326-1	Sequence 1, Appli
105	13.8	76.7	658.3	US-09-270-767-2462	Sequence 2462, Ap	178	13.8	76.7	3679.3	US-09-907-794A-244	Sequence 244, App
106	13.8	76.7	658.3	US-09-270-767-17744	Sequence 17744, A	179	13.8	76.7	3679.3	US-09-905-125A-244	Sequence 244, App
107	13.8	76.7	684.3	US-09-335-224B-5	Sequence 5, Appli	180	13.8	76.7	3679.3	US-09-902-775A-244	Sequence 244, App
108	13.8	76.7	684.3	US-09-625-191B-5	Sequence 5, Appli	181	13.8	76.7	3679.3	US-09-906-700-244	Sequence 244, App
109	13.8	76.7	900.3	US-09-589-927-3	Sequence 3, Appli	182	13.8	76.7	3679.3	US-09-903-603A-244	Sequence 244, App
110	13.8	76.7	900.3	US-09-277-665-3	Sequence 3, Appli	183	13.8	76.7	3679.3	US-09-904-920A-244	Sequence 244, App
111	13.8	76.7	900.3	US-09-589-987-3	Sequence 3, Appli	184	13.8	76.7	3679.3	US-09-909-064-244	Sequence 244, App
112	13.8	76.7	906.3	US-09-489-039A-565	Sequence 565, App	185	13.8	76.7	3679.3	US-09-905-381A-244	Sequence 244, App
113	13.8	76.7	939.3	US-09-252-991A-7039	Sequence 7039, Ap	186	13.8	76.7	3679.3	US-09-906-618-244	Sequence 244, App
114	13.8	76.7	942.3	US-09-252-991A-4156	Sequence 4156, Ap	187	13.8	76.7	3679.3	US-09-906-646-244	Sequence 244, App
115	13.8	76.7	942.3	US-09-252-991A-7060	Sequence 7060, Ap	188	13.8	76.7	3679.3	US-09-904-462-244	Sequence 244, App
116	13.8	76.7	954.3	US-09-489-039A-449	Sequence 449, App	189	13.8	76.7	3679.3	US-09-902-736A-244	Sequence 244, App
117	13.8	76.7	995.3	US-09-252-991A-4451	Sequence 4451, Ap	190	13.8	76.7	3679.3	US-09-906-722A-244	Sequence 244, App
118	13.8	76.7	1049.3	US-09-069-023-13	Sequence 13, Appl	191	13.8	76.7	3710.3	US-09-976-594-248	Sequence 248, App
119	13.8	76.7	1053.3	US-09-107-532A-1454	Sequence 1454, Ap	192	13.8	76.7	4359.3	US-09-484-970B-4	Sequence 4, Appli
120	13.8	76.7	1071.3	US-09-252-991A-8591	Sequence 8591, Ap	193	13.8	76.7	4464.3	US-09-489-039A-4942	Sequence 4942, Ap
121	13.8	76.7	1162.3	US-08-838-151A-1	Sequence 1, Appli	194	13.8	76.7	4465.2	US-08-180-195-1	Sequence 1, Appli
122	13.8	76.7	1162.3	US-09-395-674B-3	Sequence 3, Appli	195	13.8	76.7	4465.2	US-08-477-329-1	Sequence 1, Appli
123	13.8	76.7	1166.3	US-08-838-151A-13	Sequence 13, Appl	196	13.8	76.7	4465.2	US-08-475-458-1	Sequence 1, Appli
124	13.8	76.7	1169.3	US-08-838-151A-3	Sequence 3, Appli	197	13.8	76.7	4465.3	US-08-980-400-1	Sequence 1, Appli
125	13.8	76.7	1169.3	US-08-838-151A-5	Sequence 5, Appli	198	13.8	76.7	4465.3	US-09-583-459A-1	Sequence 1, Appli
126	13.8	76.7	1169.3	US-08-838-151A-7	Sequence 7, Appli	199	13.8	76.7	4465.3	US-09-583-210-1	Sequence 1, Appli
127	13.8	76.7	1212.3	US-09-252-991A-5157	Sequence 5157, Ap	200	13.8	76.7	4465.3	US-09-583-449A-1	Sequence 1, Appli
128	13.8	76.7	1215.3	US-10-321-188-34	Sequence 34, Appl	201	13.8	76.7	4465.3	US-09-435-059-1	Sequence 1, Appli
129	13.8	76.7	1215.3	US-10-321-188-60	Sequence 60, Appl	202	13.8	76.7	4527.3	US-09-045-632-1	Sequence 1, Appli
130	13.8	76.7	1215.3	US-10-321-188-62	Sequence 62, Appl	203	13.8	76.7	5337.3	US-09-902-540-810	Sequence 810, App
131	13.8	76.7	1215.3	US-10-321-188-64	Sequence 64, Appl	204	13.8	76.7	5370.3	US-09-023-655-1193	Sequence 1193, Ap
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133	13.8	76.7	1215.3	US-10-321-188-72	Sequence 72, Appl	206	13.8	76.7	7861.3	US-09-774-528-305	Sequence 305, App
134	13.8	76.7	1215.3	US-10-321-188-74	Sequence 74, Appl	207	13.8	76.7	7861.3	US-10-120-988-305	Sequence 305, App
135	13.8	76.7	1239.3	US-09-902-540-8805	Sequence 8805, Ap	208	13.8	76.7	8445.3	US-09-949-016-12626	Sequence 12626, A
136	13.8	76.7	1246.3	US-08-838-151A-15	Sequence 15, Appl	209	13.8	76.7	8449.3	US-09-949-016-14003	Sequence 14003, A
137	13.8	76.7	1305.3	US-09-489-039A-1017	Sequence 1017, Ap	210	13.8	76.7	8474.3	US-09-949-016-12567	Sequence 12567, A
138	13.8	76.7	1311.3	US-09-252-991A-4303	Sequence 4303, Ap	211	13.8	76.7	8474.3	US-09-949-016-15257	Sequence 15257, A
139	13.8	76.7	1392.3	US-09-489-039A-1088	Sequence 1088, Ap	212	13.8	76.7	10096.3	US-09-902-540-935	Sequence 935, App
140	13.8	76.7	1403.3	US-08-838-151A-60	Sequence 60, Appl	213	13.8	76.7	11563.3	US-09-902-540-1019	Sequence 1019, Ap
141	13.8	76.7	1403.3	US-09-252-991A-6988	Sequence 6988, Ap	214	13.8	76.7	11729.3	US-09-949-016-13247	Sequence 13247, A
142	13.8	76.7	1458.3	US-09-902-540-3711	Sequence 3711, Ap	215	13.8	76.7	11752.3	US-09-949-016-11756	Sequence 11756, A
143	13.8	76.7	1488.3	US-09-949-016-3851	Sequence 3851, Ap	216	13.8	76.7	11865.3	US-09-949-016-15281	Sequence 15281, A
144	13.8	76.7	1506.3	US-09-252-991A-5025	Sequence 5025, Ap	217	13.8	76.7	11865.3	US-09-949-016-15298	Sequence 15298, A
145	13.8	76.7	1629.3	US-09-489-039A-1449	Sequence 1449, Ap	218	13.8	76.7	11865.3	US-09-949-016-15298	Sequence 15298, A
146	13.8	76.7	1647.3	US-09-252-991A-5058	Sequence 5058, Ap	219	13.8	76.7	14967.3	US-09-949-016-17480	Sequence 17480, A
147	13.8	76.7	1667.2	US-08-485-284A-1	Sequence 1, Appli	220	13.8	76.7	14967.3	US-09-949-016-17481	Sequence 17481, A
148	13.8	76.7	1863.3	US-09-489-039A-4865	Sequence 4865, Ap	221	13.8	76.7	15044.3	US-09-949-002-675	Sequence 675, App
149	13.8	76.7	1896.3	US-08-198-446B-8	Sequence 8, Appli	222	13.8	76.7	15044.3	US-09-949-002-710	Sequence 710, App
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151	13.8	76.7	1953.3	US-09-902-540-1924	Sequence 1924, Ap	224	13.8	76.7	18031.3	US-09-902-540-1125	Sequence 1125, Ap
152	13.8	76.7	2211.3	US-09-799-451-181	Sequence 181, App	225	13.8	76.7	30625.3	US-09-927-091-5	Sequence 5, Appli
153	13.8	76.7	2255.3	US-10-104-047-881	Sequence 881, App	226	13.8	76.7	30676.3	US-09-927-091-8	Sequence 8, Appli
154	13.8	76.7	2276.3	US-10-104-047-824	Sequence 824, App	227	13.8	76.7	34172.3	US-09-949-016-14432	Sequence 14432, A
155	13.8	76.7	2349.3	US-09-478-316-2	Sequence 2, Appli	228	13.8	76.7	34276.3	US-09-949-016-12233	Sequence 12233, A
156	13.8	76.7	2349.3	US-09-019-793A-2	Sequence 2, Appli	229	13.8	76.7	34278.3	US-09-949-016-16103	Sequence 16103, A
157	13.8	76.7	2387.3	US-09-601-326-2	Sequence 2, Appli	230	13.8	76.7	34408.3	US-09-949-016-14010	Sequence 14010, A
158	13.8	76.7	2387.3	US-09-949-016-2268	Sequence 2268, Ap	231	13.8	76.7	39754.3	US-09-949-016-14689	Sequence 14689, A
159	13.8	76.7	2542.3	US-10-104-047-1646	Sequence 1646, Ap	232	13.8	76.7	45299.3	US-09-949-016-12465	Sequence 12465, A
160	13.8	76.7	2576.3	US-08-620-312D-1034	Sequence 1034, Ap	233	13.8	76.7	45300.3	US-09-949-016-13045	Sequence 13045, A
161	13.8	76.7	2602.3	US-08-838-151A-17	Sequence 17, Appl	234	13.8	76.7	45762.3	US-09-949-016-16651	Sequence 16651, A
162	13.8	76.7	2767.3	US-09-252-991A-8662	Sequence 8662, Ap	235	13.8	76.7	45845.3	US-09-927-091-6	Sequence 6, Appli
163	13.8	76.7	2767.3	US-09-949-016-401	Sequence 401, App	236	13.8	76.7	46447.3	US-09-949-016-15071	Sequence 15071, A
164	13.8	76.7	2969.3	US-09-799-451-388	Sequence 388, App	237	13.8	76.7	46447.3	US-09-949-016-15072	Sequence 15072, A
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167	13.8	76.7	3234.2	US-08-465-500-31	Sequence 31, Appl	240	13.8	76.7	46447.3	US-09-949-016-15075	Sequence 15075, A
168	13.8	76.7	3234.2	US-08-346-128-31	Sequence 31, Appl	241	13.8	76.7	46447.3	US-09-949-016-15076	Sequence 15076, A
169	13.8	76.7	3234.3	US-08-532-384-10	Sequence 10, Appl	242	13.8	76.7	46447.3	US-09-949-016-15077	Sequence 15077, A
170	13.8	76.7	3234.3	US-08-893-828-31	Sequence 31, Appl	243	13.8	76.7	49313.3	US-09-949-016-15063	Sequence 15063, A



C 390	13.4	74.4	3879	3	US-08-916-352-1	Sequence 1, Appli	463	13.4	74.4	10585	3	US-09-949-016-13818	Sequence 13818, A
C 391	13.4	74.4	4055	3	US-09-949-016-6201	Sequence 2201, Ap	C 464	13.4	74.4	11864	3	US-08-961-527-61	Sequence 61, Appl
C 392	13.4	74.4	4058	3	US-09-949-016-6205	Sequence 625, App	C 465	13.4	74.4	11948	3	US-09-949-016-11924	Sequence 11924, A
C 393	13.4	74.4	4094	2	US-08-231-193A-29	Sequence 29, Appl	C 466	13.4	74.4	11982	3	US-09-949-016-17084	Sequence 17084, A
C 394	13.4	74.4	4094	2	US-08-486-273A-29	Sequence 29, Appl	C 467	13.4	74.4	12032	3	US-09-949-016-15080	Sequence 15080, A
C 395	13.4	74.4	4094	2	US-08-480-474-29	Sequence 29, Appl	C 468	13.4	74.4	12032	3	US-09-949-016-15081	Sequence 15081, A
C 396	13.4	74.4	4094	3	US-08-940-086A-29	Sequence 29, Appl	C 469	13.4	74.4	12032	3	US-09-949-016-17480	Sequence 17480, A
C 397	13.4	74.4	4094	3	US-08-940-035A-29	Sequence 29, Appl	C 470	13.4	74.4	14967	3	US-09-949-016-17481	Sequence 17481, A
C 398	13.4	74.4	4094	3	US-08-935-105A-29	Sequence 29, Appl	C 471	13.4	74.4	14967	3	US-09-949-016-17481	Sequence 17481, A
C 399	13.4	74.4	4094	3	US-09-648-797-29	Sequence 29, Appl	C 472	13.4	74.4	16073	3	US-09-949-016-12312	Sequence 12312, A
C 400	13.4	74.4	4094	3	US-09-386-123-29	Sequence 29, Appl	C 473	13.4	74.4	16073	3	US-09-949-016-12305	Sequence 12305, A
C 401	13.4	74.4	4094	3	US-10-038-937-29	Sequence 29, Appl	C 474	13.4	74.4	25175	3	US-09-949-016-16247	Sequence 16247, A
C 402	13.4	74.4	4094	3	US-10-007-747-29	Sequence 29, Appl	C 475	13.4	74.4	25175	3	US-09-949-016-16248	Sequence 16248, A
C 403	13.4	74.4	4094	3	US-09-945-901-29	Sequence 29, Appl	C 476	13.4	74.4	25175	3	US-09-949-016-16273	Sequence 16273, A
C 404	13.4	74.4	4157	2	US-08-231-193A-25	Sequence 25, Appl	C 477	13.4	74.4	26016	3	US-09-326-480A-1	Sequence 1, Appli
C 405	13.4	74.4	4157	2	US-08-486-273A-25	Sequence 25, Appl	C 478	13.4	74.4	26016	3	US-09-949-016-17508	Sequence 17508, A
C 406	13.4	74.4	4157	3	US-08-480-474-25	Sequence 25, Appl	C 479	13.4	74.4	28585	3	US-09-949-016-17311	Sequence 17311, A
C 407	13.4	74.4	4157	3	US-08-940-086A-25	Sequence 25, Appl	C 480	13.4	74.4	28802	3	US-09-949-016-14124	Sequence 14124, A
C 408	13.4	74.4	4157	3	US-08-940-035A-25	Sequence 25, Appl	C 481	13.4	74.4	29516	3	US-09-949-016-17062	Sequence 17062, A
C 409	13.4	74.4	4157	3	US-08-935-105A-25	Sequence 25, Appl	C 482	13.4	74.4	29624	3	US-09-949-016-12367	Sequence 12367, A
C 410	13.4	74.4	4157	3	US-09-648-797-25	Sequence 25, Appl	C 483	13.4	74.4	29624	3	US-09-949-016-13943	Sequence 13943, A
C 411	13.4	74.4	4157	3	US-09-386-123-25	Sequence 25, Appl	C 484	13.4	74.4	29763	3	US-09-949-016-12625	Sequence 12625, A
C 412	13.4	74.4	4157	3	US-10-038-937-25	Sequence 25, Appl	C 485	13.4	74.4	29930	3	US-09-949-016-15326	Sequence 15326, A
C 413	13.4	74.4	4157	3	US-10-007-747-25	Sequence 25, Appl	C 486	13.4	74.4	30868	3	US-09-949-016-13279	Sequence 13279, A
C 414	13.4	74.4	4157	3	US-09-945-901-25	Sequence 25, Appl	C 487	13.4	74.4	31444	3	US-09-949-016-17532	Sequence 17532, A
C 415	13.4	74.4	4277	3	US-10-012-231A-57	Sequence 57, Appl	C 488	13.4	74.4	31718	3	US-09-973-278-787	Sequence 787, App
C 416	13.4	74.4	4277	3	US-10-015-389A-57	Sequence 57, Appl	C 489	13.4	74.4	31718	3	US-09-973-278-788	Sequence 788, App
C 417	13.4	74.4	4277	3	US-10-006-768A-57	Sequence 57, Appl	C 490	13.4	74.4	33349	3	US-09-949-016-17399	Sequence 17399, A
C 418	13.4	74.4	4277	3	US-10-015-671A-57	Sequence 57, Appl	C 491	13.4	74.4	34539	3	US-09-949-016-12226	Sequence 12226, A
C 419	13.4	74.4	4277	3	US-10-015-393A-57	Sequence 57, Appl	C 492	13.4	74.4	34540	3	US-09-949-016-13156	Sequence 13156, A
C 420	13.4	74.4	4277	3	US-10-011-833A-57	Sequence 57, Appl	C 493	13.4	74.4	36917	3	US-09-949-016-13197	Sequence 13197, A
C 421	13.4	74.4	4277	3	US-10-006-041A-57	Sequence 57, Appl	C 494	13.4	74.4	37385	3	US-09-949-016-15354	Sequence 15354, A
C 422	13.4	74.4	4277	3	US-10-012-064A-57	Sequence 57, Appl	C 495	13.4	74.4	38772	3	US-09-949-016-12382	Sequence 12382, A
C 423	13.4	74.4	4298	2	US-08-231-193A-1	Sequence 1, Appli	C 496	13.4	74.4	38772	3	US-09-949-016-12729	Sequence 12729, A
C 424	13.4	74.4	4298	2	US-08-486-273A-1	Sequence 1, Appli	C 497	13.4	74.4	41199	3	US-09-949-016-17269	Sequence 17269, A
C 425	13.4	74.4	4298	3	US-08-480-474-1	Sequence 1, Appli	C 498	13.4	74.4	42620	3	US-09-949-016-13879	Sequence 13879, A
C 426	13.4	74.4	4298	3	US-08-940-086A-1	Sequence 1, Appli	C 499	13.4	74.4	43726	3	US-09-949-016-17578	Sequence 17578, A
C 427	13.4	74.4	4298	3	US-08-940-035A-1	Sequence 1, Appli	C 500	13.4	74.4	45546	3	US-09-146-053-6	Sequence 6, Appli
C 428	13.4	74.4	4298	3	US-08-935-105A-1	Sequence 1, Appli	C 501	13.4	74.4	47375	3	US-09-949-016-15420	Sequence 15420, A
C 429	13.4	74.4	4298	3	US-09-648-797-1	Sequence 1, Appli	C 502	13.4	74.4	48471	3	US-09-949-016-16416	Sequence 16416, A
C 430	13.4	74.4	4298	3	US-09-386-123-1	Sequence 1, Appli	C 503	13.4	74.4	52789	3	US-09-949-016-12130	Sequence 12130, A
C 431	13.4	74.4	4298	3	US-10-038-937-1	Sequence 1, Appli	C 504	13.4	74.4	52790	3	US-09-949-016-12130	Sequence 12130, A
C 432	13.4	74.4	4298	3	US-10-007-747-1	Sequence 1, Appli	C 505	13.4	74.4	54986	3	US-09-949-016-16641	Sequence 16641, A
C 433	13.4	74.4	4298	3	US-09-945-901-1	Sequence 1, Appli	C 506	13.4	74.4	56374	3	US-09-949-016-16716	Sequence 16716, A
C 434	13.4	74.4	4361	2	US-08-231-193A-23	Sequence 23, Appl	C 507	13.4	74.4	56375	3	US-09-949-002-645	Sequence 645, App
C 435	13.4	74.4	4361	2	US-08-486-273A-23	Sequence 23, Appl	C 508	13.4	74.4	59828	3	US-09-949-002-774	Sequence 774, App
C 436	13.4	74.4	4361	3	US-08-940-086A-23	Sequence 23, Appl	C 509	13.4	74.4	60276	3	US-09-949-016-16238	Sequence 16238, A
C 437	13.4	74.4	4361	3	US-08-940-035A-23	Sequence 23, Appl	C 510	13.4	74.4	60338	3	US-09-949-016-15004	Sequence 15004, A
C 438	13.4	74.4	4361	3	US-08-935-105A-23	Sequence 23, Appl	C 511	13.4	74.4	62804	3	US-09-949-016-15694	Sequence 15694, A
C 439	13.4	74.4	4361	3	US-09-648-797-23	Sequence 23, Appl	C 512	13.4	74.4	62804	3	US-09-949-016-15676	Sequence 15676, A
C 440	13.4	74.4	4361	3	US-09-386-123-23	Sequence 23, Appl	C 513	13.4	74.4	62804	3	US-09-949-016-17314	Sequence 17314, A
C 441	13.4	74.4	4361	3	US-09-945-901-23	Sequence 23, Appl	C 514	13.4	74.4	66933	3	US-09-543-771B-11	Sequence 11, Appl
C 442	13.4	74.4	4361	3	US-10-038-937-23	Sequence 23, Appl	C 515	13.4	74.4	66933	3	US-09-409-800B-1	Sequence 1, Appli
C 443	13.4	74.4	4361	3	US-10-007-747-23	Sequence 23, Appl	C 516	13.4	74.4	70559	3	US-09-544-398B-9	Sequence 9, Appli
C 444	13.4	74.4	4361	3	US-09-945-901-23	Sequence 23, Appl	C 517	13.4	74.4	72049	3	US-09-543-771B-9	Sequence 9, Appli
C 445	13.4	74.4	4531	3	US-09-949-016-1943	Sequence 1943, Ap	C 518	13.4	74.4	72049	3	US-09-949-016-17482	Sequence 17482, A
C 446	13.4	74.4	6006	3	US-09-949-002-590	Sequence 590, App	C 519	13.4	74.4	77994	3	US-09-949-016-12517	Sequence 12517, A
C 447	13.4	74.4	6007	3	US-09-949-002-827	Sequence 827, App	C 520	13.4	74.4	77994	3	US-09-949-016-16021	Sequence 16021, A
C 448	13.4	74.4	6317	2	US-08-920-812-21	Sequence 21, Appl	C 521	13.4	74.4	77994	3	US-09-949-016-15347	Sequence 15347, A
C 449	13.4	74.4	6317	2	US-08-920-827-21	Sequence 21, Appl	C 522	13.4	74.4	80706	3	US-09-949-016-16995	Sequence 16995, A
C 450	13.4	74.4	6317	2	US-08-921-177-21	Sequence 21, Appl	C 523	13.4	74.4	83665	3	US-09-949-016-17397	Sequence 17397, A
C 451	13.4	74.4	6317	2	US-08-362-577C-21	Sequence 21, Appl	C 524	13.4	74.4	86633	3	US-09-949-016-17314	Sequence 17314, A
C 452	13.4	74.4	6317	2	US-08-920-828-21	Sequence 21, Appl	C 525	13.4	74.4	86936	3	US-09-949-016-13685	Sequence 13685, A
C 453	13.4	74.4	6482	3	US-09-949-016-12960	Sequence 12960, A	C 526	13.4	74.4	87562	3	US-09-949-016-16279	Sequence 16279, A
C 454	13.4	74.4	6604	3	US-09-949-016-16725	Sequence 16725, A	C 527	13.4	74.4	88240	3	US-09-949-016-15964	Sequence 15964, A
C 455	13.4	74.4	6682	3	US-09-949-016-16898	Sequence 16898, A	C 528	13.4	74.4	90618	3	US-09-949-016-17235	Sequence 17235, A
C 456	13.4	74.4	6719	3	US-09-740-235-36	Sequence 36, Appl	C 529	13.4	74.4	95122	3	US-09-949-016-16933	Sequence 16933, A
C 457	13.4	74.4	8021	3	US-09-740-235-2	Sequence 2, Appli	C 530	13.4	74.4	10101	3	US-09-949-016-12737	Sequence 12737, A
C 458	13.4	74.4	8140	2	US-08-297-234A-1	Sequence 1, Appli	C 531	13.4	74.4	10428	3	US-09-949-016-13814	Sequence 13814, A
C 459	13.4	74.4	8405	3	US-09-949-016-11882	Sequence 11882, A	C 532	13.4	74.4	10429	3	US-09-949-016-14158	Sequence 14158, A
C 460	13.4	74.4	8405	3	US-09-949-016-15376	Sequence 15376, A	C 533	13.4	74.4	10519	3	US-09-949-016-14169	Sequence 14169, A
C 461	13.4	74.4	8848	3	US-09-949-016-14854	Sequence 14854, A	C 534	13.4	74.4	109159	3	US-09-949-016-14170	Sequence 14170, A
C 462	13.4	74.4	9293	3	US-09-949-016-16801	Sequence 16801, A	C 535	13.4	74.4	135667	3	US-09-949-016-15051	Sequence 15051, A



536	13.4	74.4	138282	3	US-09-949-016-15307	Sequence 15307, A	c 609	13.2	73.3	492	3	US-09-060-756-587	Sequence 587, App
537	13.4	74.4	140844	3	US-09-949-016-14199	Sequence 14199, A	c 610	13.2	73.3	492	3	US-09-670-314-587	Sequence 587, App
538	13.4	74.4	147840	3	US-09-949-016-15236	Sequence 15236, A	c 611	13.2	73.3	495	3	US-09-252-991A-12958	Sequence 12958, A
539	13.4	74.4	152486	3	US-09-949-016-12869	Sequence 12869, A	c 612	13.2	73.3	522	3	US-09-621-976-2854	Sequence 2854, Ap
540	13.4	74.4	157866	3	US-09-949-016-12982	Sequence 12982, A	c 613	13.2	73.3	560	3	US-09-854-133-301	Sequence 301, App
541	13.4	74.4	157866	3	US-09-949-016-12983	Sequence 12983, A	c 614	13.2	73.3	565	2	US-08-469-427A-4	Sequence 4, Appl
542	13.4	74.4	157866	3	US-09-949-016-12986	Sequence 12984, A	c 615	13.2	73.3	565	2	US-08-609-443B-4	Sequence 4, Appl
543	13.4	74.4	166698	3	US-09-949-016-16038	Sequence 16038, A	c 616	13.2	73.3	565	2	US-08-569-063C-4	Sequence 4, Appl
544	13.4	74.4	174170	3	US-09-949-016-14810	Sequence 14810, A	c 617	13.2	73.3	565	3	US-08-851-896-4	Sequence 10, Appl
545	13.4	74.4	174170	3	US-09-949-016-14811	Sequence 14811, A	c 618	13.2	73.3	570	2	US-08-469-427A-10	Sequence 10, Appl
546	13.4	74.4	174318	3	US-09-949-016-11880	Sequence 11880, A	c 619	13.2	73.3	570	2	US-08-609-443B-10	Sequence 10, Appl
547	13.4	74.4	174318	3	US-09-949-016-14812	Sequence 14812, A	c 620	13.2	73.3	570	2	US-08-569-063C-10	Sequence 10, Appl
548	13.4	74.4	174318	3	US-09-949-016-14813	Sequence 14813, A	c 621	13.2	73.3	570	3	US-08-851-896-10	Sequence 10, Appl
549	13.4	74.4	178883	3	US-09-949-016-12733	Sequence 12733, A	c 622	13.2	73.3	579	3	US-09-502-540-5469	Sequence 5469, Ap
550	13.4	74.4	178884	3	US-09-949-016-13039	Sequence 13039, A	c 623	13.2	73.3	591	2	US-08-469-427A-6	Sequence 6, Appl
551	13.4	74.4	193303	3	US-09-497-855A-37	Sequence 37, Appl	c 624	13.2	73.3	591	2	US-08-609-443B-6	Sequence 6, Appl
552	13.4	74.4	193303	3	US-09-497-855A-44	Sequence 44, Appl	c 625	13.2	73.3	591	2	US-08-569-063C-6	Sequence 6, Appl
553	13.4	74.4	199471	3	US-08-949-016-14083	Sequence 14083, A	c 626	13.2	73.3	591	3	US-08-851-896-6	Sequence 6, Appl
554	13.4	74.4	213456	3	US-09-820-007-3	Sequence 3, Appl	c 627	13.2	73.3	601	3	US-09-949-016-18756	Sequence 18756, A
555	13.4	74.4	221958	3	US-09-949-016-12173	Sequence 12173, A	c 628	13.2	73.3	601	3	US-09-949-016-22050	Sequence 22050, A
556	13.4	74.4	221958	3	US-09-949-016-15498	Sequence 15498, A	c 629	13.2	73.3	601	3	US-09-949-016-30123	Sequence 30123, A
557	13.4	74.4	221966	3	US-09-949-016-15498	Sequence 15498, A	c 630	13.2	73.3	601	3	US-09-949-016-30123	Sequence 30123, A
558	13.4	74.4	234884	3	US-09-949-016-16420	Sequence 16420, A	c 631	13.2	73.3	601	3	US-09-949-016-34012	Sequence 34012, A
559	13.4	74.4	237510	3	US-09-949-016-14273	Sequence 14273, A	c 631	13.2	73.3	601	3	US-09-949-016-43956	Sequence 43956, A
560	13.4	74.4	256171	3	US-08-949-016-12822	Sequence 12822, A	c 632	13.2	73.3	601	3	US-09-949-016-43957	Sequence 43957, A
561	13.4	74.4	256176	3	US-09-949-016-15324	Sequence 15324, A	c 633	13.2	73.3	601	3	US-09-949-016-48675	Sequence 48675, A
562	13.4	74.4	268449	3	US-09-949-016-17244	Sequence 17244, A	c 634	13.2	73.3	601	3	US-09-949-016-50210	Sequence 50210, A
563	13.4	74.4	323820	3	US-09-949-016-14139	Sequence 14139, A	c 635	13.2	73.3	601	3	US-09-949-016-50211	Sequence 50211, A
564	13.4	74.4	828153	3	US-09-949-016-12557	Sequence 12557, A	c 636	13.2	73.3	601	3	US-09-949-016-50212	Sequence 50212, A
565	13.4	74.4	536165	3	US-09-214-808-1	Sequence 1, Appl	c 637	13.2	73.3	601	3	US-09-949-016-59514	Sequence 59514, A
566	13.4	74.4	670689	3	US-08-949-016-12505	Sequence 12505, A	c 638	13.2	73.3	601	3	US-09-949-016-67271	Sequence 67271, A
567	13.4	74.4	670690	3	US-09-949-016-14207	Sequence 14207, A	c 639	13.2	73.3	601	3	US-09-949-016-68869	Sequence 68869, A
568	13.4	74.4	784019	3	US-09-949-016-14033	Sequence 14033, A	c 640	13.2	73.3	601	3	US-09-949-016-68978	Sequence 68978, A
569	13.4	74.4	828152	3	US-09-949-016-12777	Sequence 12777, A	c 641	13.2	73.3	601	3	US-09-949-016-70145	Sequence 70145, A
570	13.4	74.4	4403765	3	US-09-103-840A-2	Sequence 2, Appl	c 642	13.2	73.3	601	3	US-09-949-016-70146	Sequence 70146, A
571	13.2	73.3	28	3	US-09-103-840A-1	Sequence 1, Appl	c 643	13.2	73.3	601	3	US-09-949-016-70147	Sequence 70147, A
572	13.2	73.3	39	3	US-09-595-684B-9	Sequence 9, Appl	c 644	13.2	73.3	601	3	US-09-949-016-71108	Sequence 71108, A
573	13.2	73.3	39	3	US-08-857-534-7	Sequence 7, Appl	c 645	13.2	73.3	601	3	US-09-949-016-71109	Sequence 71109, A
574	13.2	73.3	39	6	PCT-US95-04971-7	Sequence 7, Appl	c 646	13.2	73.3	601	3	US-09-949-016-93116	Sequence 93116, A
575	13.2	73.3	90	3	US-09-536-977-94	Sequence 94, Appl	c 647	13.2	73.3	601	3	US-09-949-016-93117	Sequence 93117, A
576	13.2	73.3	98	3	US-09-536-977-95	Sequence 95, Appl	c 648	13.2	73.3	601	3	US-09-949-016-93118	Sequence 93118, A
577	13.2	73.3	138	3	US-09-513-999C-21087	Sequence 21087, A	c 649	13.2	73.3	601	3	US-09-949-016-93119	Sequence 93119, A
578	13.2	73.3	177	3	US-09-313-294A-5168	Sequence 5168, Ap	c 650	13.2	73.3	601	3	US-09-949-016-108784	Sequence 108784, A
579	13.2	73.3	178	3	US-09-536-977-23	Sequence 23, Appl	c 651	13.2	73.3	601	3	US-09-949-016-117023	Sequence 117023, A
580	13.2	73.3	178	3	US-09-536-977-25	Sequence 25, Appl	c 652	13.2	73.3	601	3	US-09-949-016-126773	Sequence 126773, A
581	13.2	73.3	187	3	US-09-513-999C-33602	Sequence 33602, A	c 653	13.2	73.3	601	3	US-09-949-016-126822	Sequence 126822, A
582	13.2	73.3	198	3	US-09-902-540-8039	Sequence 8039, Ap	c 654	13.2	73.3	601	3	US-09-949-016-126871	Sequence 126871, A
583	13.2	73.3	207	3	US-08-857-534-16	Sequence 16, Appl	c 655	13.2	73.3	601	3	US-09-949-016-132898	Sequence 132898, A
584	13.2	73.3	207	3	PCT-US95-04971-16	Sequence 16, Appl	c 656	13.2	73.3	601	3	US-09-949-016-132917	Sequence 132917, A
585	13.2	73.3	207	6	US-09-513-298-15	Sequence 15, Appl	c 657	13.2	73.3	601	3	US-09-949-016-134406	Sequence 134406, A
586	13.2	73.3	222	3	US-08-857-534-15	Sequence 15, Appl	c 658	13.2	73.3	601	3	US-09-949-016-134455	Sequence 134455, A
587	13.2	73.3	222	3	US-09-613-298-15	Sequence 15, Appl	c 659	13.2	73.3	601	3	US-09-949-016-134504	Sequence 134504, A
588	13.2	73.3	222	6	PCT-US95-04971-15	Sequence 15, Appl	c 660	13.2	73.3	601	3	US-09-949-016-142478	Sequence 142478, A
589	13.2	73.3	255	3	US-09-302-540-7898	Sequence 7898, Ap	c 661	13.2	73.3	601	3	US-09-949-016-143561	Sequence 143561, A
590	13.2	73.3	267	3	US-09-252-991A-13951	Sequence 13951, A	c 662	13.2	73.3	601	3	US-09-949-016-145274	Sequence 145274, A
591	13.2	73.3	285	3	US-09-513-999C-3373	Sequence 3373, Ap	c 663	13.2	73.3	601	3	US-09-949-016-165878	Sequence 165878, A
592	13.2	73.3	289	3	US-09-513-999C-3373	Sequence 3373, Ap	c 664	13.2	73.3	601	3	US-09-949-016-170195	Sequence 170195, A
593	13.2	73.3	322	3	US-09-302-540-1501	Sequence 1501, Ap	c 665	13.2	73.3	601	3	US-09-949-016-170196	Sequence 170196, A
594	13.2	73.3	322	3	US-09-270-767-19452	Sequence 19452, A	c 666	13.2	73.3	601	3	US-09-949-016-175780	Sequence 175780, A
595	13.2	73.3	335	3	US-09-513-999C-12614	Sequence 12614, A	c 667	13.2	73.3	601	3	US-09-949-016-175983	Sequence 175983, A
596	13.2	73.3	346	3	US-09-513-999C-21572	Sequence 21572, A	c 668	13.2	73.3	601	3	US-09-949-016-189951	Sequence 189951, A
597	13.2	73.3	373	3	US-09-513-999C-12777	Sequence 12777, A	c 669	13.2	73.3	601	3	US-09-949-016-198460	Sequence 198460, A
598	13.2	73.3	383	3	US-09-621-976-9198	Sequence 9198, Ap	c 670	13.2	73.3	601	3	US-09-949-016-198734	Sequence 198734, A
599	13.2	73.3	402	3	US-09-328-352-118	Sequence 118, App	c 671	13.2	73.3	601	3	US-09-949-016-200026	Sequence 200026, A
600	13.2	73.3	404	3	US-08-621-976-13269	Sequence 13269, A	c 672	13.2	73.3	601	3	US-09-949-016-201807	Sequence 201807, A
601	13.2	73.3	438	3	US-09-252-991A-13445	Sequence 13445, A	c 673	13.2	73.3	601	3	US-09-949-016-202561	Sequence 202561, A
602	13.2	73.3	447	3	US-09-621-976-8704	Sequence 8704, Ap	c 674	13.2	73.3	601	3	US-09-949-002-8841	Sequence 8841, Ap
603	13.2	73.3	459	3	US-09-621-976-3407	Sequence 3407, Ap	c 675	13.2	73.3	622	3	US-09-533-559-134	Sequence 134, App
604	13.2	73.3	478	3	US-09-949-016-3431	Sequence 3431, Ap	c 676	13.2	73.3	622	3	US-09-533-559-134	Sequence 134, App
605	13.2	73.3	482	3	US-09-270-767-266	Sequence 266, App	c 677	13.2	73.3	627	3	US-09-533-559-5647	Sequence 5647, Ap
606	13.2	73.3	482	3	US-09-270-767-15548	Sequence 15548, A	c 678	13.2	73.3	645	3	US-09-489-039A-3714	Sequence 3714, Ap
607	13.2	73.3	483	3	US-09-621-976-2853	Sequence 2853, Ap	c 679	13.2	73.3	647	3	US-09-536-977-65	Sequence 65, Appl
608	13.2	73.3	486	3	US-09-302-540-2908	Sequence 2908, Ap	c 680	13.2	73.3	664	3	US-09-533-559-7336	Sequence 7336, Ap
							c 681	13.2	73.3	681	3	US-09-533-559-5596	Sequence 5596, Ap

682	13.2	73.3	684	3	US-09-270-767-14558	Sequence 14558, A	755	13.2	73.3	1464	3	US-09-489-039A-4740	Sequence 4740, Ap
683	13.2	73.3	687	3	US-09-799-451-408	Sequence 408, App	c 756	13.2	73.3	1510	3	US-09-620-312D-142	Sequence 142, App
c 684	13.2	73.3	687	3	US-09-533-559-6759	Sequence 6759, Ap	757	13.2	73.3	1521	3	US-09-902-540-7920	Sequence 7920, Ap
685	13.2	73.3	716	3	US-08-857-534-17	Sequence 17, Appl	758	13.2	73.3	1528	3	US-09-949-016-1509	Sequence 1509, Ap
686	13.2	73.3	716	3	US-09-613-298-17	Sequence 17, Appl	759	13.2	73.3	1539	3	US-09-648-183-1	Sequence 1, Appl
687	13.2	73.3	716	6	PCT-US95-04971-17	Sequence 17, Appl	c 760	13.2	73.3	1539	3	US-09-648-183-2	Sequence 2, Appl
c 688	13.2	73.3	747	3	US-09-902-540-9131	Sequence 9131, Ap	761	13.2	73.3	1545	3	US-09-252-991A-5891	Sequence 5891, A
c 689	13.2	73.3	750	3	US-09-252-991A-13279	Sequence 13279, A	c 762	13.2	73.3	1556	3	US-09-252-991A-13740	Sequence 13740, A
c 690	13.2	73.3	783	3	US-09-489-019A-3722	Sequence 3722, Ap	763	13.2	73.3	1650	3	US-09-902-540-4686	Sequence 4686, Ap
c 691	13.2	73.3	798	3	US-09-536-977-61	Sequence 61, Appl	c 764	13.2	73.3	1686	3	US-09-775-046-14	Sequence 14, Appl
c 692	13.2	73.3	800	3	US-09-536-977-63	Sequence 63, Appl	c 765	13.2	73.3	1690	3	US-09-949-016-2723	Sequence 2723, Ap
693	13.2	73.3	807	3	US-09-442-013-3	Sequence 3, Appl	766	13.2	73.3	1728	3	US-09-171-461-29	Sequence 29, Appl
694	13.2	73.3	807	3	US-09-442-013-5	Sequence 5, Appl	767	13.2	73.3	1728	3	US-09-970-711-29	Sequence 29, Appl
695	13.2	73.3	819	3	US-09-252-991A-9983	Sequence 9983, Ap	768	13.2	73.3	1762	3	US-09-443-184-35	Sequence 35, Appl
c 696	13.2	73.3	834	3	US-09-252-991A-996	Sequence 996, App	769	13.2	73.3	1866	3	US-10-104-047-117	Sequence 117, App
c 697	13.2	73.3	838	3	US-09-288-143-28	Sequence 28, Appl	c 770	13.2	73.3	1918	3	US-09-536-977-67	Sequence 67, Appl
698	13.2	73.3	840	3	US-09-952-571-2	Sequence 2, Appl	c 771	13.2	73.3	1929	3	US-09-489-039A-3772	Sequence 3772, Ap
c 699	13.2	73.3	848	3	US-09-288-143-64	Sequence 64, Appl	c 772	13.2	73.3	1959	3	US-09-774-528-375	Sequence 375, App
c 700	13.2	73.3	886	2	US-08-469-427A-1	Sequence 1, Appl	c 773	13.2	73.3	1959	3	US-10-120-988-375	Sequence 375, App
c 701	13.2	73.3	886	2	US-08-609-443B-1	Sequence 1, Appl	c 774	13.2	73.3	2007	3	US-08-829-402-1	Sequence 1, Appl
c 702	13.2	73.3	886	2	US-08-569-063C-1	Sequence 1, Appl	c 775	13.2	73.3	2044	3	US-09-227-717-3	Sequence 3, Appl
c 703	13.2	73.3	886	2	US-08-851-896-1	Sequence 1, Appl	c 776	13.2	73.3	2064	3	US-10-104-047-196	Sequence 196, App
c 704	13.2	73.3	909	3	US-09-252-991A-13406	Sequence 13406, A	c 777	13.2	73.3	2071	3	US-09-536-977-69	Sequence 69, Appl
705	13.2	73.3	924	3	US-09-902-540-8540	Sequence 8540, App	c 778	13.2	73.3	2107	2	US-08-390-162-1	Sequence 1, Appl
706	13.2	73.3	940	3	US-09-023-655-667	Sequence 667, App	c 779	13.2	73.3	2107	2	US-08-685-945B-1	Sequence 1, Appl
c 707	13.2	73.3	942	3	US-09-252-991A-13610	Sequence 13610, A	c 780	13.2	73.3	2115	3	US-09-252-991A-952	Sequence 952, App
c 708	13.2	73.3	943	3	US-09-949-016-5282	Sequence 5282, Ap	c 781	13.2	73.3	2121	3	US-10-104-047-771	Sequence 771, App
709	13.2	73.3	958	3	US-09-442-013-7	Sequence 7, Appl	c 782	13.2	73.3	2163	3	US-09-252-991A-5310	Sequence 5310, Ap
710	13.2	73.3	978	3	US-09-775-398-23	Sequence 23, Appl	c 783	13.2	73.3	2180	3	US-08-376-594-107	Sequence 107, App
c 711	13.2	73.3	987	3	US-09-252-991A-15247	Sequence 15247, A	c 784	13.2	73.3	2233	3	US-09-949-016-820	Sequence 820, App
c 712	13.2	73.3	993	3	US-09-949-016-1425	Sequence 1425, Ap	c 785	13.2	73.3	2266	3	US-09-949-016-3028	Sequence 3028, Ap
c 713	13.2	73.3	1005	3	US-09-252-991A-5961	Sequence 5961, Ap	c 786	13.2	73.3	2333	3	US-10-104-047-13	Sequence 13, Appl
714	13.2	73.3	1018	2	US-08-444-083-6	Sequence 6, Appl	c 787	13.2	73.3	2337	3	US-10-104-047-1530	Sequence 1530, Ap
715	13.2	73.3	1018	2	US-08-286-304-6	Sequence 6, Appl	788	13.2	73.3	2400	3	US-08-930-001-1	Sequence 1, Appl
716	13.2	73.3	1018	2	US-08-442-745-6	Sequence 6, Appl	789	13.2	73.3	2400	3	US-09-091-885-1	Sequence 1, Appl
717	13.2	73.3	1018	2	US-08-443-129-6	Sequence 6, Appl	c 790	13.2	73.3	2416	3	US-09-620-312D-112	Sequence 112, App
718	13.2	73.3	1018	2	US-08-443-952-6	Sequence 6, Appl	c 791	13.2	73.3	2442	3	US-10-098-108-8	Sequence 8, Appl
719	13.2	73.3	1018	2	US-08-443-130-6	Sequence 6, Appl	792	13.2	73.3	2465	3	US-10-104-047-471	Sequence 471, App
720	13.2	73.3	1018	2	US-08-898-911-6	Sequence 6, Appl	c 793	13.2	73.3	2469	3	US-09-536-977-71	Sequence 71, Appl
721	13.2	73.3	1018	6	PCT-US95-04467-6	Sequence 6, Appl	c 794	13.2	73.3	2498	3	US-10-104-047-298	Sequence 298, App
c 722	13.2	73.3	1037	3	US-09-902-540-5876	Sequence 5876, Ap	c 795	13.2	73.3	2526	3	US-10-104-047-270	Sequence 270, App
c 723	13.2	73.3	1038	3	US-09-536-977-75	Sequence 75, Appl	c 796	13.2	73.3	2736	3	US-10-098-108-6	Sequence 6, Appl
724	13.2	73.3	1039	3	US-09-902-540-155	Sequence 155, App	c 797	13.2	73.3	2796	3	US-09-252-991A-5979	Sequence 5979, Ap
c 725	13.2	73.3	1046	3	US-09-949-016-2992	Sequence 2992, Ap	c 798	13.2	73.3	2814	3	US-10-104-047-991	Sequence 991, App
c 726	13.2	73.3	1066	3	US-09-664-249B-2	Sequence 2, Appl	799	13.2	73.3	2868	3	US-08-274-121B-1	Sequence 1, Appl
c 727	13.2	73.3	1066	3	US-09-762-027-2	Sequence 2, Appl	c 800	13.2	73.3	2955	3	US-09-328-352-2800	Sequence 2800, Ap
728	13.2	73.3	1098	3	US-09-902-540-5698	Sequence 5698, Ap	c 801	13.2	73.3	3008	3	US-09-188-930-65	Sequence 65, Appl
729	13.2	73.3	1103	3	US-09-991-181-249	Sequence 249, App	802	13.2	73.3	3008	3	US-09-312-283C-65	Sequence 65, Appl
730	13.2	73.3	1103	3	US-09-990-444-249	Sequence 249, App	c 803	13.2	73.3	3080	3	US-09-411-628-3	Sequence 3, Appl
731	13.2	73.3	1103	3	US-09-997-333-249	Sequence 249, App	804	13.2	73.3	3080	3	US-10-174-794-3	Sequence 3, Appl
732	13.2	73.3	1103	3	US-09-992-598-249	Sequence 249, App	c 805	13.2	73.3	3081	3	US-10-104-047-109	Sequence 109, App
733	13.2	73.3	1111	3	US-09-620-312D-797	Sequence 797, App	c 806	13.2	73.3	3121	3	US-10-033-301-6	Sequence 6, Appl
734	13.2	73.3	1121	3	US-08-857-534-11	Sequence 11, Appl	807	13.2	73.3	3138	3	US-09-252-991A-1090	Sequence 1090, Ap
735	13.2	73.3	1121	3	US-09-613-298-11	Sequence 11, Appl	c 808	13.2	73.3	3178	3	US-10-104-047-989	Sequence 989, App
736	13.2	73.3	1121	6	PCT-US95-04971-11	Sequence 11, Appl	c 809	13.2	73.3	3191	3	US-09-484-970B-117	Sequence 117, App
737	13.2	73.3	1126	3	US-08-857-534-9	Sequence 9, Appl	c 810	13.2	73.3	3258	3	US-09-595-424-7	Sequence 7, Appl
738	13.2	73.3	1126	3	US-09-613-298-9	Sequence 9, Appl	c 811	13.2	73.3	3258	3	US-09-595-684B-26	Sequence 26, Appl
739	13.2	73.3	1126	6	PCT-US95-04971-9	Sequence 9, Appl	c 812	13.2	73.3	3282	3	US-09-252-991A-5256	Sequence 5256, Ap
740	13.2	73.3	1128	3	US-09-270-767-14909	Sequence 14909, A	c 813	13.2	73.3	3310	3	US-09-949-016-4717	Sequence 4717, Ap
741	13.2	73.3	1143	3	US-09-540-236-913	Sequence 913, App	c 814	13.2	73.3	3323	3	US-09-949-016-687	Sequence 687, App
c 742	13.2	73.3	1143	3	US-09-902-540-8600	Sequence 8600, Ap	c 815	13.2	73.3	3359	3	US-09-556-002-4	Sequence 4, Appl
743	13.2	73.3	1146	3	US-08-911-853-26	Sequence 26, Appl	816	13.2	73.3	3833	2	US-08-917-320-18	Sequence 18, Appl
744	13.2	73.3	1146	3	US-09-479-409-26	Sequence 26, Appl	817	13.2	73.3	3833	6	PCT-US95-04611A-18	Sequence 18, Appl
745	13.2	73.3	1146	3	US-09-479-453-26	Sequence 26, Appl	818	13.2	73.3	3941	3	US-09-408-865-2	Sequence 2, Appl
746	13.2	73.3	1236	3	US-09-252-991A-14730	Sequence 14730, A	c 819	13.2	73.3	4076	3	US-09-949-016-4839	Sequence 4839, Ap
747	13.2	73.3	1266	3	US-09-902-540-5902	Sequence 5902, Ap	c 820	13.2	73.3	4079	3	US-09-016-434-1208	Sequence 1208, Ap
748	13.2	73.3	1278	3	US-09-451-403	Sequence 451, A	c 821	13.2	73.3	4114	3	US-09-949-016-2541	Sequence 2541, Ap
749	13.2	73.3	1300	3	US-09-799-451-403	Sequence 403, App	c 822	13.2	73.3	4132	3	US-09-300-958A-10	Sequence 10, Appl
750	13.2	73.3	1323	3	US-09-902-540-5669	Sequence 5669, Ap	c 823	13.2	73.3	4158	3	US-09-252-991A-5348	Sequence 5348, Ap
751	13.2	73.3	1344	3	US-09-252-991A-15551	Sequence 15551, A	c 824	13.2	73.3	4163	3	US-09-949-016-748	Sequence 748, App
c 752	13.2	73.3	1405	2	US-08-390-162-3	Sequence 3, Appl	c 825	13.2	73.3	4204	3	US-09-023-655-1292	Sequence 1292, Ap
c 753	13.2	73.3	1405	2	US-08-685-945B-3	Sequence 3, Appl	c 826	13.2	73.3	4204	3	US-10-131-827-878	Sequence 878, Ap
754	13.2	73.3	1451	3	US-09-949-016-1267	Sequence 1267, Ap	c 827	13.2	73.3	4449	3	US-09-799-451-378	Sequence 378, App

828	13.2	73.3	4953	3	US-09-252-991A-5277	Sequence 5227, Ap	c 901	13.2	73.3	16738	3	US-09-949-016-12168	Sequence 12168, A
829	13.2	73.3	5006	2	US-08-485-588-2	Sequence 2, Appli	c 902	13.2	73.3	16738	3	US-09-949-016-14678	Sequence 14678, A
830	13.2	73.3	5006	2	US-08-484-565-2	Sequence 2, Appli	c 903	13.2	73.3	16742	3	US-09-949-016-12782	Sequence 12782, A
831	13.2	73.3	5006	2	US-08-480-751-2	Sequence 2, Appli	904	13.2	73.3	17041	2	US-08-076-011-1	Sequence 1, Appli
832	13.2	73.3	5006	2	US-08-943-986-2	Sequence 2, Appli	c 905	13.2	73.3	17136	3	US-09-453-702B-158	Sequence 158, App
833	13.2	73.3	5006	3	US-08-353-784-2	Sequence 2, Appli	c 906	13.2	73.3	17136	3	US-10-114-170-158	Sequence 158, App
834	13.2	73.3	5006	3	US-08-484-198-2	Sequence 2, Appli	c 907	13.2	73.3	17245	3	US-09-902-540-1073	Sequence 1073, Ap
835	13.2	73.3	5006	3	US-08-546-998-1	Sequence 2, Appli	c 908	13.2	73.3	17245	3	US-08-911-853-29	Sequence 29, Appl
836	13.2	73.3	5006	3	US-08-484-159-2	Sequence 2, Appli	c 909	13.2	73.3	17612	3	US-09-479-409-29	Sequence 29, Appl
837	13.2	73.3	5281	3	US-09-949-016-824	Sequence 824, App	910	13.2	73.3	17612	3	US-09-479-453-29	Sequence 29, Appl
838	13.2	73.3	5525	3	US-09-515-806-1	Sequence 1, Appli	c 911	13.2	73.3	17612	3	US-09-949-016-12992	Sequence 12992, A
839	13.2	73.3	5703	3	US-09-949-016-673	Sequence 673, App	c 912	13.2	73.3	17879	3	US-09-949-016-14465	Sequence 14465, A
840	13.2	73.3	5703	3	US-09-949-016-4012	Sequence 4012, Ap	c 913	13.2	73.3	18605	3	US-09-902-540-1186	Sequence 1186, Ap
841	13.2	73.3	5708	3	US-09-566-921-21	Sequence 21, Appl	c 914	13.2	73.3	20187	3	US-09-949-016-15789	Sequence 15789, A
842	13.2	73.3	5931	3	US-08-783-774-1	Sequence 1, Appli	c 915	13.2	73.3	20850	3	US-09-949-016-11810	Sequence 11810, A
843	13.2	73.3	5931	3	US-09-556-706B-1	Sequence 1, Appli	c 916	13.2	73.3	21688	3	US-09-949-016-13529	Sequence 13529, A
844	13.2	73.3	5931	3	US-09-724-418A-1	Sequence 1, Appli	c 917	13.2	73.3	21688	3	US-09-949-016-13529	Sequence 13529, A
845	13.2	73.3	6172	3	US-09-949-016-17421	Sequence 17421, A	c 918	13.2	73.3	23825	3	US-09-949-016-13336	Sequence 13336, A
846	13.2	73.3	6285	3	US-09-949-016-12815	Sequence 12815, A	c 919	13.2	73.3	24754	3	US-09-902-540-1230	Sequence 1230, Ap
847	13.2	73.3	6286	3	US-09-949-016-17179	Sequence 17179, A	c 920	13.2	73.3	24945	3	US-09-949-016-16255	Sequence 16255, A
848	13.2	73.3	6350	3	US-09-949-016-14473	Sequence 14473, A	c 921	13.2	73.3	25419	3	US-09-949-016-15476	Sequence 15476, A
849	13.2	73.3	6488	3	US-09-902-540-799	Sequence 799, App	c 922	13.2	73.3	25419	3	US-09-949-016-15477	Sequence 15477, A
850	13.2	73.3	6527	3	US-09-949-016-17087	Sequence 17087, A	c 923	13.2	73.3	26103	3	US-09-949-016-16841	Sequence 16841, A
851	13.2	73.3	6556	3	US-09-949-016-14734	Sequence 14734, A	c 924	13.2	73.3	26103	3	US-09-902-540-1251	Sequence 1251, Ap
852	13.2	73.3	6603	3	US-09-902-540-796	Sequence 796, App	c 925	13.2	73.3	28355	3	US-09-949-016-16975	Sequence 16975, A
853	13.2	73.3	6816	3	US-09-404-650-1	Sequence 1, Appli	c 926	13.2	73.3	29614	3	US-09-949-016-12390	Sequence 12390, A
854	13.2	73.3	6816	3	US-09-935-541-1	Sequence 1, Appli	c 927	13.2	73.3	31147	3	US-09-902-540-1265	Sequence 1265, Ap
855	13.2	73.3	6816	3	US-10-425-800-1	Sequence 1, Appli	c 928	13.2	73.3	31147	3	US-09-596-002-25	Sequence 25, Appl
856	13.2	73.3	6821	3	US-09-902-540-907	Sequence 907, App	c 929	13.2	73.3	33748	3	US-09-949-016-14283	Sequence 14283, A
857	13.2	73.3	6855	3	US-09-404-650-3	Sequence 3, Appli	c 930	13.2	73.3	34063	3	US-09-453-702B-96	Sequence 96, Appl
858	13.2	73.3	6855	3	US-09-935-541-3	Sequence 3, Appli	c 931	13.2	73.3	34063	3	US-10-114-170-96	Sequence 96, Appl
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860	13.2	73.3	7620	3	US-09-949-016-12562	Sequence 12562, A	c 933	13.2	73.3	34855	3	US-09-949-016-13004	Sequence 13004, A
861	13.2	73.3	7654	3	US-09-949-016-14770	Sequence 14770, A	c 934	13.2	73.3	37802	3	US-09-949-016-12639	Sequence 12639, A
862	13.2	73.3	7657	3	US-09-949-016-13167	Sequence 13167, A	c 935	13.2	73.3	38078	3	US-09-949-016-12429	Sequence 12429, A
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866	13.2	73.3	8187	3	US-10-131-827-8866	Sequence 8866, Ap	c 939	13.2	73.3	43804	3	US-09-970-711-1	Sequence 1, Appli
867	13.2	73.3	8198	3	US-09-949-016-14988	Sequence 14988, A	c 940	13.2	73.3	45138	3	US-09-949-016-13027	Sequence 13027, A
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869	13.2	73.3	8404	3	US-09-973-278-840	Sequence 840, App	c 942	13.2	73.3	45469	3	US-09-949-016-13548	Sequence 13548, A
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872	13.2	73.3	9052	3	US-09-949-016-13662	Sequence 13662, A	c 945	13.2	73.3	48316	3	US-09-949-016-16416	Sequence 16416, A
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877	13.2	73.3	9714	3	US-08-246-982A-15	Sequence 15, Appl	c 950	13.2	73.3	59076	3	US-09-949-016-16813	Sequence 16813, A
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883	13.2	73.3	10505	3	US-09-949-016-15040	Sequence 15040, Ap	c 956	13.2	73.3	70563	3	US-09-949-016-16743	Sequence 16743, A
884	13.2	73.3	10827	3	US-09-949-016-12297	Sequence 12297, A	c 957	13.2	73.3	73295	3	US-09-949-016-16743	Sequence 16743, A
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886	13.2	73.3	11581	3	US-09-949-016-15173	Sequence 15173, A	c 959	13.2	73.3	74177	3	US-09-949-016-11988	Sequence 11988, A
887	13.2	73.3	11922	3	US-09-902-540-10633	Sequence 10633, Ap	c 960	13.2	73.3	75295	3	US-09-949-016-17388	Sequence 17388, A
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889	13.2	73.3	12438	3	US-09-949-016-14323	Sequence 14323, A	c 962	13.2	73.3	80161	3	US-09-949-002-799	Sequence 799, App
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891	13.2	73.3	12460	3	US-09-949-016-13009	Sequence 13009, A	c 964	13.2	73.3	80161	3	US-09-370-700-1	Sequence 1, Appli
892	13.2	73.3	12566	3	US-09-949-016-13865	Sequence 13865, A	c 965	13.2	73.3	80161	3	US-09-603-207-1	Sequence 1, Appli
893	13.2	73.3	13222	3	US-09-736-116-60	Sequence 60, Appl	c 966	13.2	73.3	81433	3	US-09-949-016-11941	Sequence 11941, A
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899	13.2	73.3	15621	3	US-09-949-016-16564	Sequence 16564, A	c 972	13.2	73.3	97989	3	US-09-949-016-13208	Sequence 13208, A
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989 13.2 73.3 126468 3 US-09-949-016-14418  
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c 999 13.2 73.3 134987 3 US-09-949-016-15509  
1000 13.2 73.3 141115 3 US-09-949-016-17490, A

## ALIGNMENTS

## RESULT 1

US-10-085-612A-4  
; Sequence 4, Application US/10085612A  
; Patent No. 6929912  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Vredenburg, James  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS  
; FILE REFERENCE: DNA-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612A  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 4  
; LENGTH: 1254  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612A-4

Query Match 91.1%; Score 16.4; DB 3; Length 1254;  
Best Local Similarity 94.4%; Pred. No. 1.4e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18  
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Db 691 GGGTCTGTCTGGCTGGC 708

## RESULT 2

US-09-949-016-12300/c  
; Sequence 12300, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:

Sequence 14170, A  
Sequence 13180, A  
Sequence 3, Appl  
Sequence 13413, A  
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; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12300  
; LENGTH: 14438  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(14438)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-12300

Query Match 91.1%; Score 16.4; DB 3; Length 14438;  
Best Local Similarity 94.4%; Pred. No. 1.6e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 5369 GGGTCTGTCTGGCTGGC 5352

## RESULT 3

US-09-949-016-11863  
; Sequence 11863, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11863  
; LENGTH: 35803  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-11863

Query Match 91.1%; Score 16.4; DB 3; Length 35803;  
Best Local Similarity 94.4%; Pred. No. 1.6e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18  
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Db 1599 GGGTCTGTCTGGCTGGC 1616

## RESULT 4

US-09-949-016-12962  
; Sequence 12962, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.

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; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12962
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; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12962

Query Match          91.1%; Score 16.4; DB 3; Length 35804;
Best Local Similarity 94.4%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1599 GGGTCTGCTGGCTGCC 1616

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; Sequence 14433, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14433
; LENGTH: 103934
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(103934)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14433

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Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 86080 GGGTCTGCTGGCTGCC 86097

RESULT 6
US-09-091-725-18
; Sequence 18, Application US/09091725
; Patent No. 6329141
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Improved methods for transforming Phaffia
; TITLE OF INVENTION: and recombinant DNA for use therein
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster llp
; STREET: 2000 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: United States of America
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
```

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; TITLE OF INVENTION: and recombinant DNA for use therein
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster llp
; STREET: 2000 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: United States of America
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; APPLICATION NUMBER: US/09/091,725
; FILING DATE: 23-DEC-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95203620.0
; FILING DATE: 22-DEC-1995
; APPLICATION NUMBER: EP 96200943.7
; FILING DATE: 11-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: E. Victor Donahue
; REGISTRATION NUMBER: 35,492
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2470 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Phaffia rhodozyma
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 177..2198
; OTHER INFORMATION: /product= "PRCrtv"
US-09-091-725-18

Query Match          85.6%; Score 15.4; DB 3; Length 2470;
Best Local Similarity 94.1%; Pred. No. 4.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGCC 17
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Db 908 GGGTCTGCTGGCTGCC 924

RESULT 7
US-09-091-725-12
; Sequence 12, Application US/09091725
; Patent No. 6329141
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Improved methods for transforming Phaffia
; TITLE OF INVENTION: and recombinant DNA for use therein
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster llp
; STREET: 2000 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: United States of America
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
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;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/09/091,725  
;; FILING DATE: 23-DEC-1996  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: EP 95203620.0  
;; FILING DATE: 22-DEC-1995  
;; APPLICATION NUMBER: EP 96200943.7  
;; FILING DATE: 11-APR-1996  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: E. Victor Donahue  
;; REGISTRATION NUMBER: 35,492  
;; INFORMATION FOR SEQ ID NO: 12:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 2546 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: double  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: cDNA  
;; HYPOTHETICAL: NO  
;; ANTI-SENSE: NO  
;; ORGANISM: Phaffia rhodozyma  
;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: 225..2246  
;; OTHER INFORMATION: /product= "PrCrtB"  
;;  
;; US-09-091-725-12

Query Match 85.6%; Score 15.4; DB 3; Length 2546;  
Best Local Similarity 94.1%; Pred. No. 4.3e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17  
|||  
Db 956 GGGTCTGTCTGCCTGCG 972

RESULT 8  
US-09-103-840A-2  
; Sequence 2, Application US/09103840A  
; Patent No. 6294328  
; GENERAL INFORMATION:  
; APPLICANT: FLEISCHMAN, Robert D.  
; APPLICANT: WHITE, Owen R.  
; APPLICANT: FRASER, Claire M.  
; APPLICANT: VENTER, John C.  
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
; FILE REFERENCE: 24366-20007.00  
; CURRENT APPLICATION NUMBER: US/09/103,840A  
; CURRENT FILING DATE: 1998-06-24  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 4403765  
; TYPE: DNA  
; ORGANISM: Mycobacterium tuberculosis  
; FEATURE:  
; OTHER INFORMATION: CDC 1551  
; OTHER INFORMATION: "n" bases at various positions throughout the sequence  
; OTHER INFORMATION: represent a, t, c or g  
US-09-103-840A-2

Query Match 85.6%; Score 15.4; DB 3; Length 4403765;  
Best Local Similarity 94.1%; Pred. No. 3e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17  
|||  
Db 1427310 GGATCTGTCTGGCTGCG 1427326

RESULT 9  
US-09-103-840A-1  
; Sequence 1, Application US/09103840A  
; Patent No. 6294328  
; GENERAL INFORMATION:  
; APPLICANT: FLEISCHMAN, Robert D.  
; APPLICANT: WHITE, Owen R.  
; APPLICANT: FRASER, Claire M.  
; APPLICANT: VENTER, John C.  
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
; FILE REFERENCE: 24366-20007.00  
; CURRENT APPLICATION NUMBER: US/09/103,840A  
; CURRENT FILING DATE: 1998-06-24  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 4411529  
; TYPE: DNA  
; ORGANISM: Mycobacterium tuberculosis  
; OTHER INFORMATION: H37Rv  
US-09-103-840A-1

Query Match 85.6%; Score 15.4; DB 3; Length 4411529;  
Best Local Similarity 94.1%; Pred. No. 3e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17  
|||  
Db 1427843 GGATCTGTCTGGCTGCG 1427859

RESULT 10  
US-09-949-016-179785  
; Sequence 179785, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 179785  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-179785

Query Match 83.3%; Score 15; DB 3; Length 601;  
Best Local Similarity 100.0%; Pred. No. 6.3e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGTCTGGCTGCG 16  
|||  
Db 18 GGTCTGTCTGGCTGCG 32

RESULT 11  
US-09-949-016-187895  
; Sequence 187895, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED



```
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 187895
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-187895

Query Match      83.3%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTG 15
Db 10 GGGTCTGCTGGCTG 24

RESULT 12
US-09-949-016-17024/c
; Sequence 17024, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17024
; LENGTH: 29393
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17024

Query Match      83.3%; Score 15; DB 3; Length 29393;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGCTGGCTGC 16
Db 158 GGTCTGCTGGCTGC 144

RESULT 13
US-09-949-016-17117
; Sequence 17117, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
```

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; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; CURRENT FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17117
; LENGTH: 43267
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(43267)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17117

Query Match      83.3%; Score 15; DB 3; Length 43267;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTG 15
Db 20825 GGGTCTGCTGGCTG 20839

RESULT 14
US-09-949-016-16923
; Sequence 16923, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16923
; LENGTH: 390416
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16923

Query Match      83.3%; Score 15; DB 3; Length 390416;
Best Local Similarity 100.0%; Pred. No. 7.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGCTGGCTGC 16
Db 173246 GGTCTGCTGGCTGC 173260

RESULT 15
US-09-949-016-177364/c
; Sequence 177364, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
```

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; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 177364
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-177364

Query Match      82.2%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGCTCTGGCTGCGC 18
Db      274 GTGTCTGCTCTGCTGCGC 257

RESULT 16
US-09-949-002-2054/c
; Sequence 2054, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2054
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-2054

Query Match      82.2%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 7.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGCTCTGGCTGCGC 18
Db      180 GGGCTGTCTCTGGCTGTGC 163

RESULT 17
US-09-949-002-2055/c
; Sequence 2055, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2055
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-2055

Query Match      82.2%; Score 14.8; DB 3; Length 1055;
Best Local Similarity 88.9%; Pred. No. 7.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGCTCTGGCTGCGC 18
Db      1021 GGTTCTATCTCTGGCTGCGC 1038

RESULT 19
US-09-215-131-3/c
; Sequence 3, Application US/09215131
; Patent No. 6030834
; GENERAL INFORMATION:
; APPLICANT: Chu, Keting
; APPLICANT: Pot, David
; TITLE OF INVENTION: IKK Beta Regulates Transcription Factors
; FILE REFERENCE: 1449,002
; CURRENT APPLICATION NUMBER: US/09/215,131
; CURRENT FILING DATE: 1998-12-18
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1055
; TYPE: DNA
; ORGANISM: human
US-09-215-131-3

Query Match      82.2%; Score 14.8; DB 3; Length 1055;
Best Local Similarity 88.9%; Pred. No. 7.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGGTCTGCTCTGGCTGCGC 18
```

```
Db      157 GGGTCTGAATGGCTGCGC 140
|||||  |||||||
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 7268
; LENGTH: 2091
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; US-09-902-540-7268

Query Match      82.2%; Score 14.8; DB 3; Length 2091;
Best Local Similarity 88.9%; Pred. No. 8.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGTCTGTCTGGCTGCGC 18
|||||  |||||||
Db      1481 GGGTCTCTCTCGCTGCGC 1464

RESULT 23
US-09-555-790A-1/c
; Sequence 1, Application US/09555790A
; Patent No. 6555652
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo et al.
; TITLE OF INVENTION: TUMOR ANTIGEN PEPTIDE DERIVATIVES
; FILE REFERENCE: 0020-4716p
; CURRENT APPLICATION NUMBER: US/09/555,790A
; CURRENT FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2527
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (39)..(2438)
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (2439)..(2506)
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(38)
; US-09-555-790A-1

Query Match      82.2%; Score 14.8; DB 3; Length 2527;
Best Local Similarity 88.9%; Pred. No. 8.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGTCTGTCTGGCTGCGC 18
|||||  |||||||
Db      301 GGGTCTGCTCGCTGCGC 284

RESULT 24
US-09-202-047A-1/c
; Sequence 1, Application US/09202047A
; Patent No. 6815531
; GENERAL INFORMATION:
; APPLICANT: ITOH, Kyogo
; APPLICANT: SHIJO, Shigeki
; APPLICANT: IMAI, Yasuhisa
; TITLE OF INVENTION: TUMOR ANTIGEN PROTEINS, GENES THEREFOR, AND TUMOR
; TITLE OF INVENTION: ANTIGEN PEPTIDES
; FILE REFERENCE: 0020-4491P
; CURRENT APPLICATION NUMBER: US/09/202,047A
; CURRENT FILING DATE: 1998-12-07
; NUMBER OF SEQ ID NOS: 2
```

```
Db      157 GGGTCTGAATGGCTGCGC 140
|||||  |||||||
; APPLICANT: Chu, Keting
; APPLICANT: Pot, David
; TITLE OF INVENTION: IKK-beta Regulates Transcription Factors
; FILE REFERENCE: 12441.78080
; CURRENT APPLICATION NUMBER: US/09/222,734A
; CURRENT FILING DATE: 1998-12-29
; EARLIER APPLICATION NUMBER: 09/215,131
; EARLIER FILING DATE: 1998-12-18
; EARLIER APPLICATION NUMBER: 60/068,954
; EARLIER FILING DATE: 1997-12-30
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 1055
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-222-734-3

Query Match      82.2%; Score 14.8; DB 3; Length 1055;
Best Local Similarity 88.9%; Pred. No. 7.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGTCTGTCTGGCTGCGC 18
|||||  |||||||
Db      157 GGGTCTGAATGGCTGCGC 140

RESULT 21
US-10-104-047-920/c
; Sequence 920, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 6943241el full length cDNA
; FILE REFERENCE: HI-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 920
; LENGTH: 2065
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-104-047-920

Query Match      82.2%; Score 14.8; DB 3; Length 2065;
Best Local Similarity 88.9%; Pred. No. 8.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGTCTGTCTGGCTGCGC 18
|||||  |||||||
Db      1290 GGGTCTGTCTGGCTCTC 1273

RESULT 22
US-09-902-540-7268/c
; Sequence 7268, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
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US-09-949-016-56117
; Sequence 56117, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56117
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-56117

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGC 16
Db 331 GGGTCTGCTGGCTTC 346

RESULT 38
US-09-949-016-56118
; Sequence 56118, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56118
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-56118

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGC 16
Db 95 GGGTCTGCTGGCTTC 110

RESULT 39
US-09-949-016-56119
; Sequence 56119, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56119
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-56119

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGC 16
Db 47 GGGTCTGCTGGCTTC 62

RESULT 40
US-09-949-016-59435
; Sequence 59435, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59435
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-59435

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGC 16
Db 47 GGGTCTGCTGGCTTC 62

RESULT 41
US-09-949-016-134147/C
; Sequence 134147, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134147/C
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-134147/C

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGC 16
Db 4 GGGTCTGCTGGCTTC 19
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; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134147
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-134147

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCG 17
Db      513 GGTCTGTCTGGCAGCG 498

RESULT 42
US-09-949-016-134148/c
; Sequence 134148, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134148
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-134148

Query Match      80.0%; Score 14.4; DB 3; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCG 17
Db      136 GGTCTGTCTGGCAGCG 121

RESULT 43
US-08-374-077C-1/c
; Sequence 1, Application US/08374077C
; Patent No. 6027912
; GENERAL INFORMATION:
; APPLICANT: Hall, Linda M.
; APPLICANT: Ren, Dejian
; APPLICANT: Zheng, Wei
; APPLICANT: Dubald, Manuel Marcel Paul
; TITLE OF INVENTION: Genes Encoding an Invertebrate Alpha
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP
; STREET: 699 Prince Street
; CITY: Alexandria
```

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; STATE: VA
; COUNTRY: USA
; ZIP: 22314-3187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/374,077C
; FILING DATE: 19-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm M.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 022650-264
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8075 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 157..7704
; US-08-374-077C-1

Query Match      80.0%; Score 14.4; DB 3; Length 8075;
Best Local Similarity 93.8%; Pred. No. 1.3e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCG 17
Db      1928 GGTCTGTCTGGTTGCG 1913

RESULT 44
US-08-895-590-1/c
; Sequence 1, Application US/08895590
; Patent No. 6207410
; GENERAL INFORMATION:
; APPLICANT: Hall, Linda M.
; APPLICANT: Ren, Dejian
; APPLICANT: Zheng, Wei
; APPLICANT: Dubald, Manuel Marcel Paul
; TITLE OF INVENTION: Genes Encoding an Insect Calcium Channel
; NUMBER OF SEQUENCES: 101
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP
; STREET: 699 Prince Street
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22314-3187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/895,590
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/374,888
; FILING DATE: 19-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm M.
; REGISTRATION NUMBER: 39,300
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; REFERENCE/DOCKET NUMBER: 022650-263
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8075 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 157..7704
US-08-895-590-1

Query Match      80.0%; Score 14.4; DB 3; Length 8075;
Best Local Similarity 93.8%; Pred. No. 1.3e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy   2 GGCTGTCGTGGTGCG 17
Db   1928 GGCTGTCGTGGTTGC 1913

RESULT 45
US-09-539-879A-1/c
; Sequence 1, Application US/09539879A
; Patent No. 6436627
; GENERAL INFORMATION:
; APPLICANT: Hall, Linda M.
; Ren, Dejian
; Dubald, Manuel Marcel Paul
; Zheng, Wei
; TITLE OF INVENTION: Genes Encoding an Invertebrate Alpha1
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSES: BURNS, DOANE, SWECKER & MATPHIS, LLP
; STREET: 699 Prince Street
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22314-3187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/539,879A
FILING DATE: 31-Mar-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/111,865
FILING DATE: <Unknown>
APPLICATION NUMBER: US 08/374,077
FILING DATE: 19-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: McGowan, Malcolm M.
REGISTRATION NUMBER: 39,300
REFERENCE/DOCKET NUMBER: 022650-264
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-836-6620
TELEFAX: 703-836-2021
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 8075 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
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[illegible]

Query Match 80.0%; Score 14.4; DB 3; Length 17731;  
 Best Local Similarity 93.8%; Pred. No. 1.3e+03;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16  
 Db 15794 GGGTCTGTCTGGCTTC 15779

RESULT 48  
 US-09-849-334-3/c  
 ; Sequence 3, Application US/09849334  
 ; Patent No. 6500655  
 ; GENERAL INFORMATION:  
 ; APPLICANT: RUSCH, Douglas et al  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
 ; FILE REFERENCE: CL001099-CIP  
 ; CURRENT APPLICATION NUMBER: US/09/849,334  
 ; CURRENT FILING DATE: 2001-05-07  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 3  
 ; LENGTH: 19025  
 ; TYPE: DNA  
 ; ORGANISM: Human  
 US-09-849-334-3

Query Match 80.0%; Score 14.4; DB 3; Length 19025;  
 Best Local Similarity 93.8%; Pred. No. 1.3e+03;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16  
 Db 16480 GGGTGTGTCTGGCTGC 16465

RESULT 49  
 US-10-274-878-3/c  
 ; Sequence 3, Application US/10274878  
 ; Patent No. 6670163  
 ; GENERAL INFORMATION:  
 ; APPLICANT: RUSCH, Douglas et al  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
 ; FILE REFERENCE: CL001099-CIP-DIV  
 ; CURRENT APPLICATION NUMBER: US/10/274,878  
 ; CURRENT FILING DATE: 2002-10-22  
 ; PRIOR APPLICATION NUMBER: 09/849,334  
 ; PRIOR FILING DATE: 2001-05-07  
 ; PRIOR FILING DATE: 2001-02-01  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 3  
 ; LENGTH: 19025  
 ; TYPE: DNA  
 ; ORGANISM: Human  
 US-10-274-878-3

Query Match 80.0%; Score 14.4; DB 3; Length 19025;  
 Best Local Similarity 93.8%; Pred. No. 1.3e+03;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16  
 Db 16480 GGGTGTGTCTGGCTGC 16465

RESULT 50  
 US-10-697-266-3/c

; Sequence 3, Application US/10697266  
 ; Patent No. 6830912  
 ; GENERAL INFORMATION:  
 ; APPLICANT: RUSCH, Douglas et al  
 ; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
 ; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
 ; FILE REFERENCE: CL001099-CIP-DIV2  
 ; CURRENT APPLICATION NUMBER: US/10/697,266  
 ; CURRENT FILING DATE: 2003-10-31  
 ; PRIOR APPLICATION NUMBER: 10/274,878  
 ; PRIOR FILING DATE: 2002-10-22  
 ; PRIOR APPLICATION NUMBER: 09/849,334  
 ; PRIOR FILING DATE: 2001-05-07  
 ; PRIOR APPLICATION NUMBER: 09/773,371  
 ; PRIOR FILING DATE: 2001-02-01  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 3  
 ; LENGTH: 19025  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-697-266-3

Query Match 80.0%; Score 14.4; DB 3; Length 19025;  
 Best Local Similarity 93.8%; Pred. No. 1.3e+03;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16  
 Db 16480 GGGTGTGTCTGGCTGC 16465

Search completed: January 10, 2006, 23:11:39  
 Job time : 109.159 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:01:19 ; Search time 344.364 Seconds  
(without alignments)  
432.243 Million cell updates/sec

Title: US-09-869-169C-11

Perfect score: 18

Sequence: 1 99gtctgtctggctgcgc 18

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Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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Published Applications\_NA\_Main:\*

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- 2: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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1	16.4	91.1	1254	5	US-10-085-612-4 Sequence 4, Appli
2	16.4	91.1	2214	4	US-09-925-065A-675137 Sequence 675137,
3	16.4	91.1	177531	8	US-10-484-577-660 Sequence 660, App
4	16	88.9	360	9	US-10-501-282-1203 Sequence 1203, Ap
5	16	88.9	483	9	US-10-501-282-1201 Sequence 1201, Ap
6	16	88.9	1065	9	US-10-501-282-1209 Sequence 1209, Ap
7	16	88.9	1065	9	US-10-501-282-1211 Sequence 1211, Ap
8	16	88.9	1754382	9	US-10-501-282-6651 Sequence 6651, Ap
9	15.4	85.6	662	4	US-09-925-065A-81543 Sequence 81543, A
10	15.4	85.6	913	5	US-10-027-632-168189 Sequence 168189,
11	15.4	85.6	913	5	US-10-027-632-168190 Sequence 168190,
12	15.4	85.6	913	6	US-10-027-632-168189 Sequence 168189,
13	15.4	85.6	913	6	US-10-027-632-168190 Sequence 168190,
14	15.4	85.6	1064	4	US-09-925-065A-287488 Sequence 287488,
15	15.4	85.6	1896	7	US-10-282-122A-31757 Sequence 31757, A
16	15.4	85.6	2470	7	US-10-001-192A-18 Sequence 18, Appl
17	15.4	85.6	2546	7	US-10-001-192A-12 Sequence 12, Appl
18	15.4	85.6	2625	7	US-10-282-122A-26645 Sequence 26645, A
19	15.4	85.6	2628	7	US-10-282-122A-28335 Sequence 28335, A
20	15.4	85.6	3773	5	US-10-041-859-1 Sequence 1, Appli
21	15.4	85.6	4134	8	US-10-749-104-21 Sequence 21, Appl
22	15.4	85.6	4281	8	US-10-749-104-23 Sequence 23, Appl
23	15.4	85.6	4281	8	US-10-749-104-24 Sequence 24, Appl

5628	85.6	15.4	C 24	3	US-09-764-869-1740	Sequence 1740, Ap
5628	85.6	15.4	C 25	3	US-09-764-891-5912	Sequence 5912, Ap
5628	85.6	15.4	C 26	5	US-10-091-504-1740	Sequence 1740, Ap
5628	85.6	15.4	C 27	3	US-10-227-577-1740	Sequence 1740, Ap
7911	85.6	15.4	C 28	3	US-09-764-869-1738	Sequence 1738, Ap
7911	85.6	15.4	C 29	3	US-09-764-891-5911	Sequence 5911, Ap
7911	85.6	15.4	C 30	3	US-10-091-504-1738	Sequence 1738, Ap
7911	85.6	15.4	C 31	6	US-10-227-577-1738	Sequence 1738, Ap
553	83.3	15	C 32	9	US-10-779-543-21329	Sequence 21329, A
553	83.3	15	C 33	5	US-10-027-632-95731	Sequence 95731, A
588	83.3	15	C 34	6	US-10-027-632-305919	Sequence 305919, A
588	83.3	15	C 35	6	US-10-027-632-95731	Sequence 95731, A
588	83.3	15	C 36	6	US-10-027-632-305919	Sequence 305919, A
2706	83.3	15	C 37	8	US-10-425-115-26760	Sequence 26760, A
25	82.2	14.8	C 38	7	US-10-719-956-132460	Sequence 132460, A
25	82.2	14.8	C 39	8	US-10-719-900-651065	Sequence 651065, A
25	82.2	14.8	C 40	7	US-10-702-075-396	Sequence 396, App
257	82.2	14.8	C 41	7	US-10-242-535A-595	Sequence 595, App
270	82.2	14.8	C 42	7	US-10-085-783A-595	Sequence 595, App
348	82.2	14.8	C 43	7	US-10-425-115-166794	Sequence 166794, A
422	82.2	14.8	C 44	8	US-10-425-115-24643	Sequence 24643, A
474	82.2	14.8	C 45	3	US-09-918-995-28345	Sequence 28345, A
478	82.2	14.8	C 46	4	US-09-925-065A-219275	Sequence 219275, A
478	82.2	14.8	C 47	4	US-09-925-065A-219276	Sequence 219276, A
484	82.2	14.8	C 48	3	US-09-918-995-27482	Sequence 27482, A
486	82.2	14.8	C 49	4	US-09-925-065A-471687	Sequence 471687, A
486	82.2	14.8	C 50	4	US-09-925-065A-471688	Sequence 471688, A
486	82.2	14.8	C 51	4	US-09-925-065A-471689	Sequence 471689, A
503	82.2	14.8	C 52	4	US-09-925-065A-472873	Sequence 472873, A
511	82.2	14.8	C 53	8	US-10-425-115-152288	Sequence 152288, A
519	82.2	14.8	C 54	4	US-09-925-065A-377536	Sequence 377536, A
520	82.2	14.8	C 55	4	US-09-925-065A-505307	Sequence 505307, A
521	82.2	14.8	C 56	5	US-10-066-543-544	Sequence 544, App
523	82.2	14.8	C 57	8	US-10-425-115-77925	Sequence 77925, A
535	82.2	14.8	C 58	4	US-09-925-065A-382403	Sequence 382403, A
554	82.2	14.8	C 59	4	US-09-925-065A-377537	Sequence 377537, A
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572	82.2	14.8	C 61	4	US-09-925-065A-195446	Sequence 195446, A
628	82.2	14.8	C 62	4	US-09-925-065A-115255	Sequence 115255, A
634	82.2	14.8	C 63	4	US-09-925-065A-114494	Sequence 114494, A
634	82.2	14.8	C 64	4	US-09-925-065A-114495	Sequence 114495, A
634	82.2	14.8	C 65	4	US-09-925-065A-114496	Sequence 114496, A
634	82.2	14.8	C 66	4	US-09-925-065A-114497	Sequence 114497, A
654	82.2	14.8	C 67	7	US-10-282-122A-17932	Sequence 17932, A
667	82.2	14.8	C 68	5	US-10-027-632-149278	Sequence 149278, A
667	82.2	14.8	C 69	5	US-10-027-632-149278	Sequence 149278, A
676	82.2	14.8	C 70	5	US-10-027-632-205345	Sequence 205345, A
676	82.2	14.8	C 71	6	US-10-027-632-205345	Sequence 205345, A
677	82.2	14.8	C 72	4	US-09-925-065A-732082	Sequence 732082, A
694	82.2	14.8	C 73	5	US-10-027-632-101548	Sequence 101548, A
694	82.2	14.8	C 74	5	US-10-027-632-101548	Sequence 101548, A
723	82.2	14.8	C 75	7	US-10-424-599-88035	Sequence 88035, A
736	82.2	14.8	C 76	4	US-09-925-065A-84140	Sequence 84140, A
736	82.2	14.8	C 77	4	US-09-925-065A-84141	Sequence 84141, A
736	82.2	14.8	C 78	4	US-09-925-065A-84142	Sequence 84142, A
754	82.2	14.8	C 79	7	US-10-424-599-88038	Sequence 88038, A
763	82.2	14.8	C 80	7	US-10-425-115-75956	Sequence 75956, A
771	82.2	14.8	C 81	7	US-10-437-963-71561	Sequence 71561, A
785	82.2	14.8	C 82	5	US-10-027-632-158388	Sequence 158388, A
785	82.2	14.8	C 83	6	US-10-027-632-158388	Sequence 158388, A
829	82.2	14.8	C 84	6	US-10-369-493-34166	Sequence 34166, A
840	82.2	14.8	C 85	6	US-10-032-189-57	Sequence 57, Appl
960	82.2	14.8	C 86	6	US-10-369-493-23891	Sequence 23891, A
1034	82.2	14.8	C 87	7	US-10-236-392-205	Sequence 205, App
1043	82.2	14.8	C 88	7	US-10-169-395-149	Sequence 149, App
1053	82.2	14.8	C 89	8	US-10-653-047-1378	Sequence 1378, Ap
1269	82.2	14.8	C 90	3	US-09-798-029-14	Sequence 14, Appl
1368	82.2	14.8	C 91	5	US-10-231-411-5	Sequence 5, Appl1
1456	82.2	14.8	C 92	5	US-10-132-813-9	Sequence 9, Appl1
1565	82.2	14.8	C 93	6	US-10-094-097B-257	Sequence 257, App
1593	82.2	14.8	C 94	6	US-10-156-761-5226	Sequence 5226, Ap
1804	82.2	14.8	C 95	5	US-10-087-192-1643	Sequence 1643, Ap
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c 98	14.8	82.2	1845	4	US-09-925-065A-709245	Sequence 709245,	c 171	14.4	80.0	573	4	US-09-925-065A-219124	Sequence 219124,
c 99	14.8	82.2	2025	9	US-10-450-763-16927	Sequence 16927, A	172	14.4	80.0	578	6	US-10-029-386-85	Sequence 85, Appl
c 100	14.8	82.2	2054	3	US-09-822-849A-555	Sequence 555, App	173	14.4	80.0	583	4	US-09-925-065A-473951	Sequence 473951,
c 101	14.8	82.2	2065	6	US-10-104-047-920	Sequence 920, App	174	14.4	80.0	587	4	US-09-925-065A-253982	Sequence 253982,
c 102	14.8	82.2	2405	7	US-10-206-618-10	Sequence 10, Appl	175	14.4	80.0	587	4	US-09-925-065A-233983	Sequence 233983,
c 103	14.8	82.2	2405	7	US-10-206-618-11	Sequence 11, Appl	176	14.4	80.0	589	4	US-09-925-065A-137590	Sequence 137590,
c 104	14.8	82.2	2468	4	US-09-925-065A-676519	Sequence 676519,	177	14.4	80.0	589	4	US-09-925-065A-137591	Sequence 137591,
c 105	14.8	82.2	2468	4	US-09-925-065A-676520	Sequence 676520,	178	14.4	80.0	589	4	US-09-925-065A-137592	Sequence 137592,
c 106	14.8	82.2	2527	8	US-10-921-110-1	Sequence 1, Appli	179	14.4	80.0	589	4	US-09-925-065A-897000	Sequence 897000,
c 107	14.8	82.2	2550	9	US-10-959-539-105	Sequence 105, App	c 180	14.4	80.0	595	4	US-09-925-065A-747327	Sequence 747327,
c 108	14.8	82.2	2605	6	US-10-094-749-1631	Sequence 1631, Ap	181	14.4	80.0	596	4	US-09-925-065A-855034	Sequence 855034,
c 109	14.8	82.2	2703	6	US-10-369-493-32635	Sequence 32635, A	c 182	14.4	80.0	598	4	US-09-925-065A-71010	Sequence 71010,
c 110	14.8	82.2	2844	7	US-10-437-963-988	Sequence 988, App	183	14.4	80.0	600	9	US-10-972-079-34689	Sequence 34689, A
c 111	14.8	82.2	2919	5	US-10-262-538-11	Sequence 11, Appl	c 184	14.4	80.0	600	9	US-10-972-079-62566	Sequence 62566, A
c 112	14.8	82.2	2919	6	US-10-285-351B-2	Sequence 2, Appli	c 185	14.4	80.0	600	9	US-10-972-079-62567	Sequence 62567, A
c 113	14.8	82.2	2919	8	US-10-669-176-11	Sequence 11, Appl	186	14.4	80.0	600	9	US-10-972-079-86514	Sequence 86514, A
c 114	14.8	82.2	2955	7	US-10-437-963-34025	Sequence 34025, A	187	14.4	80.0	600	9	US-10-972-079-86515	Sequence 86515, A
c 115	14.8	82.2	3030	3	US-09-972-211-43	Sequence 43, Appl	188	14.4	80.0	600	9	US-10-972-079-86516	Sequence 86516, A
c 116	14.8	82.2	3030	7	US-10-096-625-43	Sequence 43, Appl	c 189	14.4	80.0	604	4	US-09-925-065A-190851	Sequence 190851,
c 117	14.8	82.2	3283	6	US-10-108-260A-2439	Sequence 2439, Ap	190	14.4	80.0	604	4	US-09-925-065A-833312	Sequence 833312,
c 118	14.8	82.2	3432	3	US-09-972-211-41	Sequence 41, Appl	c 191	14.4	80.0	605	4	US-09-925-065A-284675	Sequence 284675,
c 119	14.8	82.2	3432	7	US-10-096-625-41	Sequence 41, Appl	c 192	14.4	80.0	605	4	US-09-925-065A-284676	Sequence 284676,
c 120	14.8	82.2	3583	7	US-10-236-392-203	Sequence 209, App	c 193	14.4	80.0	638	4	US-09-925-065A-718441	Sequence 718441,
c 121	14.8	82.2	3595	7	US-10-236-392-203	Sequence 203, App	c 194	14.4	80.0	644	4	US-09-925-065A-718441	Sequence 718441,
c 122	14.8	82.2	3763	9	US-10-450-763-5676	Sequence 5676, Ap	195	14.4	80.0	652	5	US-10-027-632-25311	Sequence 25311, A
c 123	14.8	82.2	5157	10	US-11-097-143-36041	Sequence 36041, A	196	14.4	80.0	652	5	US-10-027-632-25312	Sequence 25312, A
c 124	14.8	82.2	5426	3	US-09-798-029-7	Sequence 7, Appli	197	14.4	80.0	652	6	US-10-027-632-25311	Sequence 25311, A
c 125	14.8	82.2	9894	10	US-11-097-143-36040	Sequence 36040, A	198	14.4	80.0	652	6	US-10-027-632-25312	Sequence 25312, A
c 126	14.8	82.2	11102	5	US-10-205-823-334	Sequence 334, App	c 199	14.4	80.0	663	4	US-09-925-065A-888220	Sequence 888220,
c 127	14.8	82.2	11102	8	US-10-788-792-18	Sequence 18, Appl	c 200	14.4	80.0	670	4	US-09-925-065A-527108	Sequence 527108,
c 128	14.8	82.2	11102	10	US-11-051-454-334	Sequence 334, App	c 201	14.4	80.0	670	4	US-09-925-065A-527109	Sequence 527109,
c 129	14.8	82.2	11283	6	US-10-341-434-130	Sequence 130, App	c 202	14.4	80.0	676	4	US-09-925-065A-888221	Sequence 888221,
c 130	14.8	82.2	12123	7	US-10-206-618-1	Sequence 1, Appli	c 203	14.4	80.0	676	4	US-09-925-065A-912367	Sequence 912367,
c 131	14.8	82.2	23713	9	US-10-936-273-13	Sequence 13, Appl	c 204	14.4	80.0	802	5	US-10-027-632-162529	Sequence 162529,
c 132	14.8	82.2	26225	3	US-09-764-869-1276	Sequence 1276, Ap	c 205	14.4	80.0	802	5	US-10-027-632-162530	Sequence 162530,
c 133	14.8	82.2	26225	3	US-09-984-429-448	Sequence 448, App	c 206	14.4	80.0	802	6	US-10-027-632-162529	Sequence 162529,
c 134	14.8	82.2	26225	5	US-10-091-504-1276	Sequence 1276, Ap	c 207	14.4	80.0	802	6	US-10-027-632-162530	Sequence 162530,
c 135	14.8	82.2	26225	6	US-10-227-577-1276	Sequence 1276, Ap	c 208	14.4	80.0	844	5	US-10-027-632-171892	Sequence 171892,
c 136	14.8	82.2	35623	7	US-10-322-281-356	Sequence 356, App	c 209	14.4	80.0	844	5	US-10-027-632-171892	Sequence 171892,
c 137	14.8	82.2	36534	6	US-10-285-351B-3	Sequence 3, Appli	c 210	14.4	80.0	977	7	US-10-437-963-99852	Sequence 99852, A
c 138	14.8	82.2	37571	5	US-10-240-425-1461	Sequence 1461, Ap	c 211	14.4	80.0	1041	7	US-10-437-963-40659	Sequence 40659, A
c 139	14.8	82.2	37571	5	US-10-087-192-1516	Sequence 1516, Ap	c 212	14.4	80.0	1195	4	US-09-925-065A-60135	Sequence 60135, A
c 140	14.8	82.2	37571	5	US-10-087-192-1516	Sequence 1030, Ap	c 213	14.4	80.0	1218	5	US-10-027-632-30952	Sequence 30952, A
c 141	14.8	82.2	41454	5	US-10-087-192-1642	Sequence 1642, Ap	c 214	14.4	80.0	1218	6	US-10-027-632-30952	Sequence 30952, A
c 142	14.8	82.2	71132	5	US-10-087-192-1867	Sequence 1867, Ap	c 215	14.4	80.0	1220	4	US-09-925-065A-37212	Sequence 37212, A
c 143	14.8	82.2	81099	5	US-10-087-192-1756	Sequence 1756, Ap	c 216	14.4	80.0	1220	4	US-09-925-065A-37213	Sequence 37213, A
c 144	14.8	82.2	87001	8	US-10-741-600-17792	Sequence 17792, A	c 217	14.4	80.0	1225	4	US-09-925-065A-715994	Sequence 715994,
c 145	14.8	82.2	96960	8	US-10-484-577-662	Sequence 662, App	c 218	14.4	80.0	1341	7	US-10-425-114-32758	Sequence 32758, A
c 146	14.8	82.2	110096	3	US-09-880-107-1542	Sequence 1542, Ap	c 219	14.4	80.0	1344	7	US-10-282-122A-20480	Sequence 20480, A
c 147	14.8	82.2	128318	8	US-10-719-993-6775	Sequence 6775, Ap	c 220	14.4	80.0	1367	7	US-10-425-114-20698	Sequence 20698, A
c 148	14.8	82.2	392112	8	US-10-812-232-3	Sequence 3, Appli	c 221	14.4	80.0	1397	8	US-10-425-115-128860	Sequence 128860,
c 149	14.8	82.2	2256646	7	US-10-470-565-1	Sequence 1, Appli	c 222	14.4	80.0	1635	9	US-10-450-763-24248	Sequence 24248, A
c 150	14.8	82.2	9025608	6	US-10-156-761-1	Sequence 1, Appli	c 223	14.4	80.0	2168	3	US-09-835-976B-83	Sequence 83, Appl
c 151	14.4	80.0	25	10	US-11-036-317-528835	Sequence 528835,	c 224	14.4	80.0	2837	7	US-10-451-207-11	Sequence 11, Appl
c 152	14.4	80.0	201	8	US-10-719-993-33688	Sequence 33688, A	c 225	14.4	80.0	2902	4	US-09-925-065A-705850	Sequence 705850,
c 153	14.4	80.0	201	8	US-10-741-600-58269	Sequence 58269, A	c 226	14.4	80.0	3076	8	US-10-425-115-177044	Sequence 177044,
c 154	14.4	80.0	201	8	US-10-741-600-59405	Sequence 59405, A	c 227	14.4	80.0	3170	7	US-10-322-696-41	Sequence 41, Appl
c 155	14.4	80.0	236	8	US-10-425-115-39844	Sequence 39844, A	c 228	14.4	80.0	3323	6	US-10-074-024-774	Sequence 774, App
c 156	14.4	80.0	269	7	US-10-424-599-99423	Sequence 99423, A	c 229	14.4	80.0	4089	9	US-10-450-763-25060	Sequence 25060, App
c 157	14.4	80.0	345	9	US-10-779-543-19863	Sequence 19863, A	c 230	14.4	80.0	4512	9	US-10-450-763-5051	Sequence 5051, Ap
c 158	14.4	80.0	383	8	US-10-425-115-71329	Sequence 71329, A	c 231	14.4	80.0	5162	10	US-11-097-143-27658	Sequence 27658, A
c 159	14.4	80.0	403	4	US-09-925-065A-181410	Sequence 181410,	c 232	14.4	80.0	5239	3	US-09-835-976B-1	Sequence 1, Appli
c 160	14.4	80.0	403	4	US-09-925-065A-181411	Sequence 181411,	c 233	14.4	80.0	5246	5	US-10-013-939-11	Sequence 11, Appl
c 161	14.4	80.0	410	9	US-10-779-543-12301	Sequence 12301, A	c 234	14.4	80.0	5246	10	US-11-082-153-11	Sequence 11, Appl
c 162	14.4	80.0	417	8	US-10-425-115-38491	Sequence 38491, A	c 235	14.4	80.0	5261	7	US-10-276-774-371	Sequence 774, App
c 163	14.4	80.0	445	6	US-10-027-632-315286	Sequence 315286,	c 236	14.4	80.0	6240	9	US-10-450-763-25942	Sequence 25942, A
c 164	14.4	80.0	445	6	US-10-027-632-315286	Sequence 315286,	c 237	14.4	80.0	7275	3	US-09-764-872-864	Sequence 864, App
c 165	14.4	80.0	478	3	US-09-864-761-3418	Sequence 3418, Ap	c 238	14.4	80.0	8368	10	US-11-097-143-10019	Sequence 10019, A
c 166	14.4	80.0	511	7	US-10-425-114-3341	Sequence 3341, Ap	c 239	14.4	80.0	8984	10	US-11-097-143-34579	Sequence 34579, A
c 167	14.4	80.0	513	9	US-10-756-149-3109	Sequence 3109, Ap	c 240	14.4	80.0	12043	3	US-09-979-593-1	Sequence 1, Appli
c 168	14.4	80.0	513	9	US-10-756-149-3109	Sequence 3109, Ap	c 241	14.4	80.0	12043	3	US-09-979-593-1	Sequence 59, Appl
c 169	14.4	80.0	562	4	US-09-925-065A-219123	Sequence 219123,	c 242	14.4	80.0	12438	6	US-10-074-024-773	Sequence 773, App



243	14.4	80.0	12683	6	US-10-242-355-703	Sequence 703, App	Sequence 703, App	316	14	77.8	921	3	US-09-735-713A-1	Sequence 1, Appli
244	14.4	80.0	12744	6	US-10-242-355-702	Sequence 702, App	Sequence 702, App	317	14	77.8	921	8	US-10-487-463-3	Sequence 3, Appli
245	14.4	80.0	18657	5	US-10-074-045-70	Sequence 70, Appl	Sequence 70, Appl	318	14	77.8	921	9	US-10-889-890-1	Sequence 1, Appli
246	14.4	80.0	18861	3	US-09-884-429-513	Sequence 513, App	Sequence 513, App	319	14	77.8	1035	6	US-10-104-271-12	Sequence 12, Appl
247	14.4	80.0	19025	5	US-10-274-878-3	Sequence 3, Appli	Sequence 3, Appli	320	14	77.8	1185	6	US-10-369-493-32909	Sequence 32909, A
248	14.4	80.0	19025	7	US-10-697-266-3	Sequence 3, Appli	Sequence 3, Appli	321	14	77.8	1262	7	US-10-311-035-41	Sequence 41, Appl
249	14.4	80.0	20130	10	US-11-097-143-34510	Sequence 34510, A	Sequence 34510, A	322	14	77.8	1356	4	US-09-925-065A-386	Sequence 386, App
250	14.4	80.0	21857	10	US-11-097-143-10018	Sequence 10018, A	Sequence 10018, A	323	14	77.8	1358	4	US-09-925-065A-72986	Sequence 72986, A
251	14.4	80.0	27185	8	US-10-741-600-18005	Sequence 18005, A	Sequence 18005, A	324	14	77.8	1496	9	US-10-956-157-5138	Sequence 5138, Ap
252	14.4	80.0	28562	5	US-10-087-192-211	Sequence 211, App	Sequence 211, App	325	14	77.8	1568	3	US-09-735-713A-7	Sequence 7, Appli
253	14.4	80.0	28974	6	US-10-074-024-775	Sequence 775, App	Sequence 775, App	326	14	77.8	1568	9	US-10-889-890-7	Sequence 7, Appli
254	14.4	80.0	32351	7	US-10-322-696-40	Sequence 40, Appl	Sequence 40, Appl	327	14	77.8	1611	5	US-10-027-632-252601	Sequence 252601, A
255	14.4	80.0	44990	7	US-10-052-482-217	Sequence 217, App	Sequence 217, App	328	14	77.8	1611	6	US-10-027-632-252601	Sequence 252601, A
256	14.4	80.0	49031	7	US-10-322-281-5233	Sequence 523, App	Sequence 523, App	329	14	77.8	1671	3	US-09-888-615-47	Sequence 47, Appl
257	14.4	80.0	60316	8	US-10-719-993-6833	Sequence 6833, Ap	Sequence 6833, Ap	330	14	77.8	2212	5	US-10-044-090-717	Sequence 717, App
258	14.4	80.0	81199	5	US-10-087-192-1150	Sequence 1150, Ap	Sequence 1150, Ap	331	14	77.8	2357	6	US-10-108-260A-87	Sequence 87, Appl
259	14.4	80.0	98716	8	US-10-741-600-17754	Sequence 17754, A	Sequence 17754, A	332	14	77.8	2357	10	US-11-097-143-38605	Sequence 38605, A
260	14.4	80.0	113000	6	US-10-376-566-16	Sequence 16, Appl	Sequence 16, Appl	333	14	77.8	2899	6	US-10-104-047-430	Sequence 430, App
261	14.4	80.0	135259	7	US-10-240-425-1585	Sequence 1585, Ap	Sequence 1585, Ap	334	14	77.8	6317	9	US-10-826-448-3	Sequence 3, Appli
262	14.4	80.0	142976	7	US-10-367-094-99	Sequence 99, Appl	Sequence 99, Appl	335	14	77.8	11366	6	US-10-085-959-39	Sequence 39, Appl
263	14.4	80.0	159095	6	US-10-017-128-3	Sequence 3, Appli	Sequence 3, Appli	336	14	77.8	11371	6	US-10-238-075-1096	Sequence 1096, Ap
264	14.4	80.0	191395	6	US-10-235-192A-45	Sequence 45, Appl	Sequence 45, Appl	337	14	77.8	39000	3	US-09-957-956-5	Sequence 5, Appli
265	14.4	80.0	198161	8	US-10-775-169-52	Sequence 52, Appl	Sequence 52, Appl	338	14	77.8	39000	9	US-10-642-946-5	Sequence 5, Appli
266	14.4	80.0	198161	8	US-10-723-860-165	Sequence 165, App	Sequence 165, App	339	14	77.8	41684	6	US-10-376-893-1	Sequence 1, Appli
267	14.4	80.0	230093	8	US-10-719-993-6861	Sequence 6861, Ap	Sequence 6861, Ap	340	14	77.8	60153	5	US-10-222-334-7	Sequence 7, Appli
268	14.4	80.0	268685	6	US-10-265-071-22	Sequence 22, Appl	Sequence 22, Appl	341	14	77.8	80032	8	US-10-087-192-1069	Sequence 1069, Ap
269	14.4	80.0	289190	7	US-10-322-281-115	Sequence 115, App	Sequence 115, App	342	14	77.8	94672	5	US-10-052-482-7	Sequence 7, Appli
270	14.4	80.0	302603	7	US-10-371-416-8	Sequence 8, Appli	Sequence 8, Appli	343	14	77.8	96597	7	US-10-723-860-3104	Sequence 3104, Ap
271	14.4	80.0	325791	3	US-09-768-185A-1	Sequence 1, Appli	Sequence 1, Appli	344	14	77.8	185035	9	US-10-756-149-2896	Sequence 2896, Ap
272	14.4	80.0	385320	8	US-10-741-600-17796	Sequence 17796, A	Sequence 17796, A	345	14	77.8	347001	7	US-10-319-908-16	Sequence 16, Appl
273	14.4	80.0	1601042	5	US-10-027-632-59064	Sequence 59064, A	Sequence 59064, A	346	14	77.8	76.7	20	US-10-302-279-40	Sequence 40, Appl
274	14.4	80.0	1601042	6	US-10-027-632-59064	Sequence 59064, A	Sequence 59064, A	347	13.8	76.7	20	6	US-10-160-497-69	Sequence 69, Appl
275	14.4	80.0	1601042	6	US-09-738-626-1	Sequence 1, Appli	Sequence 1, Appli	348	13.8	76.7	20	6	US-10-348-750-69	Sequence 69, Appl
276	14.4	80.0	3309400	3	US-10-719-956-209230	Sequence 209230, App	Sequence 209230, App	349	13.8	76.7	20	9	US-10-991-147-69	Sequence 69, Appl
277	14	77.8	25	7	US-10-104-271-19	Sequence 19, Appl	Sequence 19, Appl	350	13.8	76.7	20	9	US-10-257-158A-7513	Sequence 7513, Ap
278	14	77.8	28	6	US-10-104-271-19	Sequence 19, Appl	Sequence 19, Appl	351	13.8	76.7	23	10	US-11-069-208-11	Sequence 11, Appl
279	14	77.8	28	6	US-10-104-271-19	Sequence 19, Appl	Sequence 19, Appl	352	13.8	76.7	23	10	US-11-069-208-11	Sequence 11, Appl
280	14	77.8	135	3	US-09-864-761-32507	Sequence 32507, A	Sequence 32507, A	353	13.8	76.7	24	9	US-10-257-158A-2880	Sequence 2880, Ap
281	14	77.8	220	6	US-10-029-386-15521	Sequence 15521, A	Sequence 15521, A	354	13.8	76.7	25	7	US-10-719-956-6607	Sequence 6607, Ap
282	14	77.8	364	3	US-09-864-761-16004	Sequence 16004, A	Sequence 16004, A	355	13.8	76.7	25	7	US-10-719-956-149566	Sequence 149566, A
283	14	77.8	431	3	US-09-883-965-2504	Sequence 2504, Ap	Sequence 2504, Ap	356	13.8	76.7	25	7	US-10-719-956-156077	Sequence 156077, A
284	14	77.8	491	3	US-10-425-115-36840	Sequence 36840, Ap	Sequence 36840, Ap	357	13.8	76.7	25	7	US-10-719-956-572531	Sequence 572531, A
285	14	77.8	497	3	US-09-918-995-31144	Sequence 31144, A	Sequence 31144, A	358	13.8	76.7	25	7	US-10-719-900-604336	Sequence 604336, A
286	14	77.8	549	4	US-09-925-065A-419067	Sequence 419067, A	Sequence 419067, A	359	13.8	76.7	25	10	US-11-036-317-532270	Sequence 532270, A
287	14	77.8	549	4	US-09-925-065A-419068	Sequence 419068, A	Sequence 419068, A	360	13.8	76.7	25	10	US-11-036-317-588912	Sequence 588912, A
288	14	77.8	551	6	US-10-029-386-1821	Sequence 1821, Ap	Sequence 1821, Ap	361	13.8	76.7	25	10	US-11-036-317-605960	Sequence 605960, A
289	14	77.8	568	4	US-09-925-065A-530133	Sequence 530133, A	Sequence 530133, A	362	13.8	76.7	25	10	US-11-036-317-718257	Sequence 718257, A
290	14	77.8	588	4	US-09-925-065A-487905	Sequence 487905, A	Sequence 487905, A	363	13.8	76.7	25	10	US-11-036-317-808346	Sequence 808346, A
291	14	77.8	589	4	US-09-925-065A-874512	Sequence 874512, A	Sequence 874512, A	364	13.8	76.7	25	10	US-11-036-317-904269	Sequence 904269, A
292	14	77.8	595	6	US-09-925-065A-514816	Sequence 514816, A	Sequence 514816, A	365	13.8	76.7	25	10	US-11-036-317-909704	Sequence 909704, A
293	14	77.8	595	6	US-10-029-386-5455	Sequence 5455, Ap	Sequence 5455, Ap	366	13.8	76.7	25	10	US-11-036-317-915837	Sequence 915837, A
294	14	77.8	600	5	US-10-027-632-286805	Sequence 286805, A	Sequence 286805, A	367	13.8	76.7	25	10	US-09-864-761-23828	Sequence 23828, A
295	14	77.8	600	5	US-10-027-632-286805	Sequence 286805, A	Sequence 286805, A	368	13.8	76.7	25	10	US-10-719-993-42178	Sequence 42178, A
296	14	77.8	604	5	US-10-027-632-110212	Sequence 110212, A	Sequence 110212, A	369	13.8	76.7	201	8	US-10-719-993-42178	Sequence 42178, A
297	14	77.8	604	6	US-10-027-632-110212	Sequence 110212, A	Sequence 110212, A	370	13.8	76.7	201	8	US-10-719-993-42178	Sequence 42178, A
298	14	77.8	632	6	US-10-252-157-439	Sequence 439, App	Sequence 439, App	371	13.8	76.7	201	8	US-10-741-600-64738	Sequence 64738, A
299	14	77.8	641	5	US-10-027-632-74923	Sequence 74923, A	Sequence 74923, A	372	13.8	76.7	212	8	US-10-425-115-17152	Sequence 17152, A
300	14	77.8	641	5	US-10-027-632-313442	Sequence 313442, A	Sequence 313442, A	373	13.8	76.7	218	8	US-10-674-124A-9592	Sequence 9592, Ap
301	14	77.8	641	6	US-10-027-632-74923	Sequence 74923, A	Sequence 74923, A	374	13.8	76.7	227	8	US-10-425-115-168097	Sequence 168097, A
302	14	77.8	641	6	US-10-027-632-313442	Sequence 313442, A	Sequence 313442, A	375	13.8	76.7	242	8	US-10-425-115-11182	Sequence 11182, A
303	14	77.8	654	6	US-10-238-075-1103	Sequence 1103, Ap	Sequence 1103, Ap	376	13.8	76.7	268	8	US-10-425-115-134491	Sequence 134491, A
304	14	77.8	696	4	US-09-925-065A-57100	Sequence 57100, A	Sequence 57100, A	377	13.8	76.7	271	3	US-09-880-107-2482	Sequence 2482, Ap
305	14	77.8	727	4	US-09-925-065A-920123	Sequence 920123, A	Sequence 920123, A	378	13.8	76.7	305	8	US-10-425-115-134306	Sequence 134306, A
306	14	77.8	766	6	US-10-104-271-5	Sequence 5, Appli	Sequence 5, Appli	379	13.8	76.7	311	8	US-10-425-115-43962	Sequence 43962, A
307	14	77.8	806	5	US-10-027-632-153490	Sequence 153490, A	Sequence 153490, A	380	13.8	76.7	328	7	US-10-424-599-37784	Sequence 37784, A
308	14	77.8	806	5	US-10-027-632-153491	Sequence 153491, A	Sequence 153491, A	381	13.8	76.7	367	8	US-10-674-124A-5014	Sequence 5014, Ap
309	14	77.8	806	6	US-10-027-632-153490	Sequence 153490, A	Sequence 153490, A	382	13.8	76.7	374	8	US-10-425-115-79824	Sequence 79824, A
310	14	77.8	806	6	US-10-027-632-153491	Sequence 153491, A	Sequence 153491, A	383	13.8	76.7	378	6	US-10-029-386-16566	Sequence 16566, A
311	14	77.8	866	5	US-10-037-270-682	Sequence 682, App	Sequence 682, App	384	13.8	76.7	382	3	US-09-922-293-378	Sequence 378, App
312	14	77.8	866	6	US-10-117-722-682	Sequence 682, App	Sequence 682, App	385	13.8	76.7	386	6	US-10-029-386-21160	Sequence 21160, A
313	14	77.8	866	6	US-10-122-851-682	Sequence 682, App	Sequence 682, App	386	13.8	76.7	386	8	US-10-674-124A-20317	Sequence 20317, A
314	14	77.8	909	3	US-09-735-713A-3	Sequence 3, Appli	Sequence 3, Appli	387	13.8	76.7	387	8	US-10-425-115-146240	Sequence 146240, A
315	14	77.8	909	9	US-10-889-890-3	Sequence 3, Appli	Sequence 3, Appli	388	13.8	76.7	395	7	US-10-424-599-35992	Sequence 35992, A

C 389	13.8	76.7	396	8	US-10-425-115-43804	Sequence 43804, A	462	13.8	76.7	590	7	US-10-276-774-1201	Sequence 1201, Ap
C 390	13.8	76.7	405	9	US-10-450-763-981	Sequence 981, App	463	13.8	76.7	596	6	US-10-029-386-7460	Sequence 7460, Ap
C 391	13.8	76.7	408	8	US-10-723-860-2742	Sequence 2742, Ap	c 464	13.8	76.7	598	5	US-10-027-632-199557	Sequence 199557, A
C 392	13.8	76.7	408	9	US-10-756-149-2526	Sequence 2526, Ap	c 465	13.8	76.7	598	6	US-10-027-632-199557	Sequence 199557, A
C 393	13.8	76.7	411	3	US-09-922-293-377	Sequence 377, App	c 466	13.8	76.7	598	7	US-10-767-701-20737	Sequence 20737, A
C 394	13.8	76.7	412	3	US-09-960-352-12815	Sequence 12815, A	c 467	13.8	76.7	599	6	US-10-029-386-2866	Sequence 2866, Ap
C 395	13.8	76.7	415	3	US-09-920-300A-102	Sequence 102, App	c 468	13.8	76.7	599	9	US-10-972-079-92667	Sequence 92667, A
C 396	13.8	76.7	415	3	US-10-033-528-102	Sequence 102, App	c 469	13.8	76.7	599	9	US-10-972-079-92668	Sequence 92668, A
C 397	13.8	76.7	415	6	US-10-099-926-102	Sequence 102, App	c 470	13.8	76.7	600	3	US-09-864-761-7097	Sequence 7097, Ap
C 398	13.8	76.7	415	6	US-10-961-527-102	Sequence 102, App	c 471	13.8	76.7	600	3	US-10-956-157-7083	Sequence 7083, Ap
C 399	13.8	76.7	422	3	US-09-867-701-8175	Sequence 8175, Ap	c 472	13.8	76.7	600	9	US-10-956-157-9303	Sequence 9303, Ap
C 400	13.8	76.7	429	8	US-10-425-115-32770	Sequence 32770, A	c 473	13.8	76.7	600	9	US-10-972-079-20707	Sequence 20707, A
C 401	13.8	76.7	431	7	US-10-637-855-487	Sequence 487, App	c 474	13.8	76.7	600	9	US-10-972-079-30077	Sequence 30077, A
C 402	13.8	76.7	434	5	US-10-450-763-983	Sequence 983, App	c 475	13.8	76.7	600	9	US-10-972-079-30078	Sequence 30078, A
C 403	13.8	76.7	434	5	US-10-027-632-126022	Sequence 126022, A	c 476	13.8	76.7	600	9	US-10-972-079-30079	Sequence 30079, A
C 404	13.8	76.7	448	6	US-10-027-632-126022	Sequence 126022, A	c 477	13.8	76.7	600	9	US-10-972-079-73538	Sequence 73538, A
C 405	13.8	76.7	456	7	US-10-424-599-135324	Sequence 135324, A	c 478	13.8	76.7	600	9	US-10-972-079-73539	Sequence 73539, A
C 406	13.8	76.7	464	3	US-09-728-445-618	Sequence 618, App	c 479	13.8	76.7	600	9	US-10-972-079-73540	Sequence 73540, A
C 407	13.8	76.7	464	9	US-10-964-549-618	Sequence 618, App	c 480	13.8	76.7	600	9	US-10-972-079-73541	Sequence 73541, A
C 408	13.8	76.7	466	7	US-10-437-963-4055	Sequence 4055, Ap	c 481	13.8	76.7	602	4	US-09-925-065A-33996	Sequence 33996, A
C 409	13.8	76.7	469	4	US-09-925-065A-288565	Sequence 288565, A	c 482	13.8	76.7	603	4	US-09-925-065A-469313	Sequence 469313, A
C 410	13.8	76.7	473	8	US-10-425-115-62913	Sequence 62913, A	c 483	13.8	76.7	603	4	US-09-925-065A-469314	Sequence 469314, A
C 411	13.8	76.7	479	4	US-09-925-065A-529831	Sequence 529831, A	c 484	13.8	76.7	610	4	US-09-925-065A-649747	Sequence 649747, A
C 412	13.8	76.7	487	3	US-09-918-995-1361	Sequence 1361, Ap	c 485	13.8	76.7	610	4	US-09-925-065A-649748	Sequence 649748, A
C 413	13.8	76.7	489	3	US-09-918-995-29586	Sequence 29586, A	c 486	13.8	76.7	610	4	US-09-925-065A-625574	Sequence 625574, A
C 414	13.8	76.7	494	8	US-10-425-115-71621	Sequence 71621, A	c 487	13.8	76.7	613	4	US-09-925-065A-625575	Sequence 625575, A
C 415	13.8	76.7	500	8	US-10-425-115-26348	Sequence 26348, A	c 488	13.8	76.7	613	4	US-09-925-065A-625576	Sequence 625576, A
C 416	13.8	76.7	500	8	US-10-723-860-817	Sequence 817, App	c 489	13.8	76.7	614	4	US-09-925-065A-470031	Sequence 470031, A
C 417	13.8	76.7	502	3	US-09-918-995-23556	Sequence 23556, A	c 490	13.8	76.7	614	4	US-09-925-065A-470032	Sequence 470032, A
C 418	13.8	76.7	504	4	US-09-925-065A-831695	Sequence 831695, A	c 491	13.8	76.7	620	4	US-09-925-065A-780354	Sequence 780354, A
C 419	13.8	76.7	504	5	US-10-027-632-43592	Sequence 43592, A	c 492	13.8	76.7	620	4	US-09-925-065A-841549	Sequence 841549, A
C 420	13.8	76.7	504	6	US-10-027-632-43592	Sequence 43592, A	c 493	13.8	76.7	620	5	US-10-027-632-115982	Sequence 115982, A
C 421	13.8	76.7	512	6	US-10-029-386-6451	Sequence 6451, Ap	c 494	13.8	76.7	626	6	US-09-925-065A-115982	Sequence 115982, A
C 422	13.8	76.7	521	5	US-10-027-632-270870	Sequence 270870, A	c 495	13.8	76.7	626	4	US-09-925-065A-514303	Sequence 514303, A
C 423	13.8	76.7	521	5	US-10-027-632-270871	Sequence 270871, A	c 496	13.8	76.7	627	7	US-10-282-122A-11464	Sequence 11464, A
C 424	13.8	76.7	521	6	US-10-027-632-270870	Sequence 270870, A	c 497	13.8	76.7	629	4	US-09-925-065A-515613	Sequence 515613, A
C 425	13.8	76.7	521	6	US-10-027-632-270871	Sequence 270871, A	c 498	13.8	76.7	631	4	US-09-925-065A-120778	Sequence 120778, A
C 426	13.8	76.7	528	4	US-09-925-065A-139790	Sequence 139790, A	c 499	13.8	76.7	633	4	US-09-925-065A-367641	Sequence 367641, A
C 427	13.8	76.7	528	4	US-09-925-065A-139790	Sequence 139790, A	c 500	13.8	76.7	633	4	US-09-925-065A-367647	Sequence 367647, A
C 428	13.8	76.7	533	4	US-09-925-065A-603659	Sequence 603659, A	c 501	13.8	76.7	633	4	US-09-925-065A-367648	Sequence 367648, A
C 429	13.8	76.7	534	6	US-10-232-896-113	Sequence 113, App	c 502	13.8	76.7	634	5	US-10-027-632-125725	Sequence 125725, A
C 430	13.8	76.7	534	8	US-10-705-401-110	Sequence 110, App	c 503	13.8	76.7	634	6	US-10-027-632-125725	Sequence 125725, A
C 431	13.8	76.7	542	6	US-10-027-632-54049	Sequence 54049, A	c 504	13.8	76.7	641	4	US-09-925-065A-671129	Sequence 671129, A
C 432	13.8	76.7	542	6	US-10-027-632-54049	Sequence 54049, A	c 505	13.8	76.7	641	4	US-09-925-065A-671130	Sequence 671130, A
C 433	13.8	76.7	543	4	US-09-925-065A-53266	Sequence 53266, A	c 506	13.8	76.7	641	5	US-10-027-632-16770	Sequence 16770, A
C 434	13.8	76.7	543	4	US-09-925-065A-53267	Sequence 53267, A	c 507	13.8	76.7	641	6	US-10-027-632-16770	Sequence 16770, A
C 435	13.8	76.7	543	5	US-10-027-632-246898	Sequence 246898, A	c 508	13.8	76.7	645	8	US-10-653-047-6571	Sequence 6571, Ap
C 436	13.8	76.7	543	5	US-10-027-632-246899	Sequence 246899, A	c 509	13.8	76.7	655	4	US-09-925-065A-680417	Sequence 680417, A
C 437	13.8	76.7	543	6	US-10-027-632-246899	Sequence 246899, A	c 510	13.8	76.7	667	4	US-09-925-065A-861962	Sequence 861962, A
C 438	13.8	76.7	543	6	US-10-027-632-246899	Sequence 246899, A	c 511	13.8	76.7	667	4	US-09-925-065A-861963	Sequence 861963, A
C 439	13.8	76.7	544	4	US-09-925-065A-456115	Sequence 456115, A	c 512	13.8	76.7	667	4	US-09-925-065A-861963	Sequence 861963, A
C 440	13.8	76.7	558	4	US-09-925-065A-484475	Sequence 484475, A	c 513	13.8	76.7	668	6	US-10-029-386-20182	Sequence 20182, A
C 441	13.8	76.7	559	7	US-10-425-114-17375	Sequence 17375, A	c 514	13.8	76.7	673	4	US-09-925-065A-861000	Sequence 861000, A
C 442	13.8	76.7	562	7	US-10-425-114-31312	Sequence 31312, A	c 515	13.8	76.7	678	5	US-10-027-632-113988	Sequence 113988, A
C 443	13.8	76.7	563	7	US-10-430-201-2615	Sequence 2615, Ap	c 516	13.8	76.7	678	6	US-10-027-632-113988	Sequence 113988, A
C 444	13.8	76.7	563	7	US-10-430-201-2615	Sequence 2615, Ap	c 517	13.8	76.7	684	6	US-10-032-221B-5	Sequence 5, Appli
C 445	13.8	76.7	564	5	US-10-027-632-298693	Sequence 298693, A	c 518	13.8	76.7	684	7	US-10-390-933B-5	Sequence 5, Appli
C 446	13.8	76.7	564	5	US-10-027-632-321954	Sequence 321954, A	c 519	13.8	76.7	687	4	US-09-925-065A-785542	Sequence 785542, A
C 447	13.8	76.7	564	6	US-10-027-632-298693	Sequence 298693, A	c 520	13.8	76.7	687	4	US-09-925-065A-785543	Sequence 785543, A
C 448	13.8	76.7	564	6	US-10-027-632-321954	Sequence 321954, A	c 521	13.8	76.7	687	4	US-09-925-065A-785544	Sequence 785544, A
C 449	13.8	76.7	567	4	US-09-925-065A-746420	Sequence 746420, A	c 522	13.8	76.7	690	7	US-10-072-012-15	Sequence 15, Appl
C 450	13.8	76.7	568	5	US-10-027-632-289174	Sequence 289174, A	c 523	13.8	76.7	694	8	US-10-425-115-112610	Sequence 112610, A
C 451	13.8	76.7	568	6	US-10-027-632-289174	Sequence 289174, A	c 524	13.8	76.7	695	7	US-10-072-012-11	Sequence 11, Appl
C 452	13.8	76.7	569	4	US-09-925-065A-613338	Sequence 613338, A	c 525	13.8	76.7	695	7	US-10-072-012-13	Sequence 13, Appl
C 453	13.8	76.7	569	4	US-09-925-065A-613339	Sequence 613339, A	c 526	13.8	76.7	719	5	US-10-027-632-283313	Sequence 283313, A
C 454	13.8	76.7	571	4	US-09-925-065A-773464	Sequence 773464, A	c 527	13.8	76.7	719	6	US-10-027-632-283313	Sequence 283313, A
C 455	13.8	76.7	574	5	US-10-027-632-125726	Sequence 125726, A	c 528	13.8	76.7	765	7	US-10-425-114-2115	Sequence 2115, Ap
C 456	13.8	76.7	574	6	US-10-027-632-125726	Sequence 125726, A	c 529	13.8	76.7	766	9	US-10-450-763-27971	Sequence 27971, A
C 457	13.8	76.7	574	9	US-10-450-763-12112	Sequence 12112, A	c 530	13.8	76.7	769	5	US-10-027-632-171631	Sequence 171631, A
C 458	13.8	76.7	581	4	US-09-925-065A-80516	Sequence 80516, A	c 531	13.8	76.7	769	6	US-10-027-632-171631	Sequence 171631, A
C 459	13.8	76.7	584	5	US-10-027-632-232801	Sequence 232801, A	c 532	13.8	76.7	780	5	US-10-027-632-170797	Sequence 170797, A
C 460	13.8	76.7	584	6	US-10-027-632-232801	Sequence 232801, A	c 533	13.8	76.7	780	6	US-10-027-632-170797	Sequence 170797, A
C 461	13.8	76.7	587	8	US-10-425-115-67579	Sequence 67579, A	c 534	13.8	76.7	792	5	US-10-027-632-171632	Sequence 171632, A

535	13.8	76.7	792	6	US-10-027-632-171632	Sequence 171632, A	608	13.8	76.7	1275	6	US-10-369-493-45070	Sequence 45070, A
536	13.8	76.7	833	7	US-10-425-114-25421	Sequence 25421, A	c 609	13.8	76.7	1277	7	US-10-029-020-5	Sequence 5, Appli
537	13.8	76.7	838	7	US-10-425-114-36136	Sequence 36136, A	610	13.8	76.7	1314	6	US-10-369-493-45473	Sequence 45473, A
538	13.8	76.7	859	7	US-10-425-114-27444	Sequence 27444, A	c 611	13.8	76.7	1322	7	US-10-029-020-7	Sequence 7, Appli
539	13.8	76.7	863	7	US-10-425-114-27291	Sequence 27291, A	c 612	13.8	76.7	1325	7	US-10-470-360-43	Sequence 43, Appli
540	13.8	76.7	865	7	US-10-425-114-27658	Sequence 27658, A	c 613	13.8	76.7	1327	7	US-10-425-114-5461	Sequence 5461, Ap
541	13.8	76.7	867	7	US-10-425-114-27768	Sequence 27768, Ap	614	13.8	76.7	1335	7	US-10-282-122A-28610	Sequence 28610, A
c 542	13.8	76.7	875	5	US-10-027-632-10697	Sequence 10697, A	615	13.8	76.7	1338	7	US-10-282-122A-28659	Sequence 28659, A
543	13.8	76.7	878	3	US-10-027-632-10697	Sequence 10697, A	c 616	13.8	76.7	1340	7	US-10-425-114-20417	Sequence 20417, A
544	13.8	76.7	878	6	US-09-974-300-337	Sequence 337, App	c 617	13.8	76.7	1357	6	US-10-085-167-1	Sequence 1, Appli
c 545	13.8	76.7	900	7	US-10-738-304-3	Sequence 3, Appli	618	13.8	76.7	1383	6	US-10-369-493-24204	Sequence 24204, A
c 546	13.8	76.7	900	8	US-10-903-827-3	Sequence 3, Appli	619	13.8	76.7	1389	7	US-10-437-963-20321	Sequence 20321, A
c 547	13.8	76.7	909	8	US-10-425-115-114611	Sequence 114611, A	620	13.8	76.7	1400	9	US-10-356-157-6157	Sequence 6157, Ap
548	13.8	76.7	947	8	US-10-425-115-2428	Sequence 2428, Ap	c 621	13.8	76.7	1400	10	US-11-060-756-3832	Sequence 3832, Ap
549	13.8	76.7	973	8	US-10-425-115-49092	Sequence 49092, A	c 622	13.8	76.7	1400	10	US-11-060-756-8104	Sequence 8104, Ap
c 550	13.8	76.7	990	6	US-10-236-055A-13	Sequence 13, Appl	c 623	13.8	76.7	1403	2	US-08-838-151A-60	Sequence 60, Appl
551	13.8	76.7	992	9	US-10-499-352A-23	Sequence 23, Appl	c 624	13.8	76.7	1409	9	US-10-450-763-29422	Sequence 29422, A
552	13.8	76.7	993	6	US-10-369-493-24260	Sequence 24260, A	c 625	13.8	76.7	1416	4	US-09-925-065A-666973	Sequence 666973, A
553	13.8	76.7	994	8	US-10-425-115-179498	Sequence 179498, A	c 626	13.8	76.7	1436	8	US-10-723-860-6664	Sequence 6664, Ap
554	13.8	76.7	998	4	US-09-925-065A-86377	Sequence 86377, A	c 627	13.8	76.7	1437	6	US-10-156-761-5988	Sequence 5988, Ap
555	13.8	76.7	1000	5	US-10-027-632-31864	Sequence 31864, A	c 628	13.8	76.7	1453	8	US-10-425-115-182162	Sequence 182162, A
556	13.8	76.7	1000	6	US-10-027-632-31864	Sequence 31864, A	c 629	13.8	76.7	1464	7	US-10-282-122A-15075	Sequence 15075, A
c 557	13.8	76.7	1001	9	US-10-779-543-7970	Sequence 7970, Ap	c 630	13.8	76.7	1488	5	US-10-087-192-1349	Sequence 1349, Ap
c 558	13.8	76.7	1005	7	US-10-282-122A-21637	Sequence 21637, A	c 631	13.8	76.7	1494	6	US-10-203-319A-54	Sequence 54, Appli
559	13.8	76.7	1012	3	US-09-957-397-4	Sequence 4, Appli	c 632	13.8	76.7	1501	8	US-10-732-011-1	Sequence 1, Appli
560	13.8	76.7	1053	6	US-10-369-493-27555	Sequence 27555, A	c 633	13.8	76.7	1501	9	US-10-450-763-11199	Sequence 11199, A
561	13.8	76.7	1068	5	US-10-027-632-119466	Sequence 119466, A	c 634	13.8	76.7	1510	10	US-11-097-143-5627	Sequence 5627, Ap
562	13.8	76.7	1068	6	US-10-027-632-119466	Sequence 119466, A	c 635	13.8	76.7	1525	3	US-09-981-353-168	Sequence 168, App
563	13.8	76.7	1104	5	US-10-027-632-101331	Sequence 101331, A	c 636	13.8	76.7	1527	6	US-10-369-493-24054	Sequence 24054, A
564	13.8	76.7	1104	6	US-10-027-632-101331	Sequence 101331, A	c 637	13.8	76.7	1554	6	US-10-156-761-597	Sequence 597, App
565	13.8	76.7	1106	6	US-10-027-632-9377	Sequence 9377, Ap	c 638	13.8	76.7	1599	3	US-09-925-301-372	Sequence 372, App
566	13.8	76.7	1106	6	US-10-027-632-9377	Sequence 9377, Ap	c 639	13.8	76.7	1612	8	US-10-425-115-49091	Sequence 49091, A
567	13.8	76.7	1117	3	US-10-425-114-10016	Sequence 10016, A	c 640	13.8	76.7	1612	8	US-10-425-115-108818	Sequence 108818, A
568	13.8	76.7	1127	3	US-09-822-830A-602	Sequence 602, App	c 641	13.8	76.7	1680	5	US-10-128-714-7457	Sequence 7457, Ap
c 569	13.8	76.7	1127	4	US-09-925-065A-38776	Sequence 38776, A	c 642	13.8	76.7	1723	6	US-10-094-749-39	Sequence 39, Appl
c 570	13.8	76.7	1127	4	US-09-925-065A-38777	Sequence 38777, A	c 643	13.8	76.7	1733	4	US-09-925-065A-67975	Sequence 67975, A
c 571	13.8	76.7	1129	8	US-10-425-115-108817	Sequence 108817, A	c 644	13.8	76.7	1764	4	US-09-925-065A-67975	Sequence 67975, A
c 572	13.8	76.7	1133	7	US-10-425-114-20509	Sequence 20509, A	c 645	13.8	76.7	1792	4	US-09-925-065A-717091	Sequence 717091, A
c 573	13.8	76.7	1133	7	US-10-425-114-20509	Sequence 20509, A	c 646	13.8	76.7	1838	9	US-10-450-763-3898	Sequence 3898, Ap
c 574	13.8	76.7	1143	7	US-10-450-763-22940	Sequence 22940, A	c 647	13.8	76.7	1854	5	US-10-864-701-1	Sequence 1, Appli
c 575	13.8	76.7	1152	6	US-10-425-114-5078	Sequence 5078, Ap	c 648	13.8	76.7	1880	5	US-10-128-714-6457	Sequence 6457, Ap
c 576	13.8	76.7	1152	6	US-10-156-761-7387	Sequence 7387, Ap	c 649	13.8	76.7	1937	5	US-10-027-632-97139	Sequence 97139, A
c 577	13.8	76.7	1162	2	US-08-838-151A-1	Sequence 1, Appli	c 650	13.8	76.7	1937	5	US-10-027-632-97140	Sequence 97140, A
c 578	13.8	76.7	1166	2	US-08-838-151A-13	Sequence 13, Appl	c 651	13.8	76.7	1937	6	US-10-027-632-97139	Sequence 97139, A
c 579	13.8	76.7	1169	2	US-08-838-151A-3	Sequence 3, Appli	c 652	13.8	76.7	1937	6	US-10-027-632-97139	Sequence 97140, A
c 580	13.8	76.7	1169	2	US-08-838-151A-5	Sequence 5, Appli	c 653	13.8	76.7	1945	3	US-10-764-420-2125	Sequence 2125, Ap
c 581	13.8	76.7	1176	7	US-10-425-114-32926	Sequence 32926, A	c 654	13.8	76.7	2030	9	US-10-450-763-12114	Sequence 12114, A
c 582	13.8	76.7	1176	8	US-10-425-115-137802	Sequence 137802, A	c 655	13.8	76.7	2043	4	US-09-925-065A-701041	Sequence 701041, A
c 583	13.8	76.7	1185	6	US-10-156-761-3298	Sequence 3298, Ap	c 656	13.8	76.7	2058	9	US-10-450-763-29619	Sequence 29619, A
c 584	13.8	76.7	1194	6	US-10-094-113-17	Sequence 17, Appl	c 657	13.8	76.7	2073	6	US-10-156-761-971	Sequence 971, App
c 585	13.8	76.7	1204	7	US-10-115-635-272	Sequence 272, App	c 658	13.8	76.7	2093	7	US-10-424-599-99188	Sequence 99188, A
c 586	13.8	76.7	1207	6	US-10-369-493-36781	Sequence 36781, A	c 659	13.8	76.7	2167	3	US-09-922-849A-391	Sequence 391, App
c 587	13.8	76.7	1209	7	US-10-425-114-30058	Sequence 30058, A	c 660	13.8	76.7	2187	8	US-10-739-930-3801	Sequence 3801, Ap
c 588	13.8	76.7	1215	6	US-10-321-188-34	Sequence 34, Appl	c 661	13.8	76.7	2202	3	US-09-814-353-19163	Sequence 19163, A
c 589	13.8	76.7	1215	6	US-10-321-188-60	Sequence 60, Appl	c 662	13.8	76.7	2211	7	US-10-302-172-181	Sequence 181, App
c 590	13.8	76.7	1215	6	US-10-321-188-62	Sequence 62, Appl	c 663	13.8	76.7	2212	3	US-09-880-107-3682	Sequence 3682, Ap
c 591	13.8	76.7	1215	6	US-10-321-188-64	Sequence 64, Appl	c 664	13.8	76.7	2212	6	US-10-172-118-1903	Sequence 1903, Ap
c 592	13.8	76.7	1215	6	US-10-321-188-66	Sequence 66, Appl	c 665	13.8	76.7	2212	6	US-10-331-496A-7	Sequence 7, Appli
c 593	13.8	76.7	1215	6	US-10-321-188-72	Sequence 72, Appl	c 666	13.8	76.7	2212	6	US-10-372-683-29	Sequence 29, Appl
c 594	13.8	76.7	1215	6	US-10-321-188-74	Sequence 74, Appl	c 667	13.8	76.7	2212	7	US-10-342-887-1903	Sequence 1903, Ap
c 595	13.8	76.7	1215	9	US-10-915-172-34	Sequence 34, Appl	c 668	13.8	76.7	2212	9	US-10-848-755A-206	Sequence 206, App
c 596	13.8	76.7	1215	9	US-10-915-172-34	Sequence 34, Appl	c 669	13.8	76.7	2247	8	US-09-768-826-11	Sequence 62, Appl
c 597	13.8	76.7	1215	9	US-10-915-172-62	Sequence 62, Appl	c 670	13.8	76.7	2247	8	US-10-874-484-11	Sequence 11, Appl
c 598	13.8	76.7	1215	9	US-10-915-172-62	Sequence 62, Appl	c 671	13.8	76.7	2255	6	US-10-104-047-881	Sequence 881, App
c 599	13.8	76.7	1215	9	US-10-915-172-66	Sequence 66, Appl	c 672	13.8	76.7	2276	6	US-10-104-047-624	Sequence 624, App
c 600	13.8	76.7	1215	9	US-10-915-172-72	Sequence 72, Appl	c 673	13.8	76.7	2289	7	US-10-437-963-46254	Sequence 46254, A
c 601	13.8	76.7	1215	9	US-10-915-172-74	Sequence 74, Appl	c 674	13.8	76.7	2315	6	US-10-094-749-236	Sequence 624, App
c 602	13.8	76.7	1238	9	US-10-450-763-3927	Sequence 3927, Ap	c 675	13.8	76.7	2318	7	US-10-437-963-96611	Sequence 96611, A
c 603	13.8	76.7	1242	2	US-10-424-599-32245	Sequence 32245, A	c 676	13.8	76.7	2343	5	US-09-965-313-1	Sequence 1, Appli
c 604	13.8	76.7	1246	2	US-08-838-151A-15	Sequence 15, Appl	c 677	13.8	76.7	2349	5	US-10-104-019-2	Sequence 2, Appli
c 605	13.8	76.7	1254	7	US-10-437-963-12569	Sequence 12569, A	c 678	13.8	76.7	2349	6	US-10-104-019-2	Sequence 2, Appli
c 606	13.8	76.7	1263	6	US-10-080-254-104	Sequence 104, App	c 679	13.8	76.7	2349	6	US-10-428-826-2	Sequence 2, Appli
c 607	13.8	76.7	1263	6	US-10-242-355-656	Sequence 656, App	c 680	13.8	76.7	2409	6	US-10-062-674-2111	Sequence 2111, Ap

681	13.8	76.7	2440	4	US-09-925-065A-667486	Sequence 667486,	c 754	13.8	76.7	3679	3	US-09-906-700-244	Sequence 244, App
682	13.8	76.7	2440	4	US-09-925-065A-667487	Sequence 667487,	c 755	13.8	76.7	3679	3	US-09-903-786-244	Sequence 244, App
683	13.8	76.7	2440	4	US-09-925-065A-667488	Sequence 667488,	c 756	13.8	76.7	3679	3	US-09-902-903-244	Sequence 244, App
c 684	13.8	76.7	2460	6	US-10-004-113-60	Sequence 60, Appl	c 757	13.8	76.7	3679	3	US-09-903-749A-244	Sequence 244, App
685	13.8	76.7	2502	6	US-10-108-260A-1878	Sequence 1878, Ap	c 758	13.8	76.7	3679	3	US-09-904-119-244	Sequence 244, App
686	13.8	76.7	2502	10	US-11-097-143-32731	Sequence 32731, A	c 759	13.8	76.7	3679	3	US-09-904-956-244	Sequence 244, App
c 687	13.8	76.7	2526	6	US-10-094-749-1	Sequence 1, Appli	c 760	13.8	76.7	3679	3	US-09-902-736-244	Sequence 244, App
c 688	13.8	76.7	2542	6	US-10-104-047-1646	Sequence 1646, Ap	c 761	13.8	76.7	3679	3	US-09-907-794-244	Sequence 244, App
c 689	13.8	76.7	2576	5	US-10-037-270-1034	Sequence 1034, Ap	c 762	13.8	76.7	3679	3	US-09-903-943-244	Sequence 244, App
c 690	13.8	76.7	2576	6	US-10-117-722-1034	Sequence 1034, Ap	c 763	13.8	76.7	3679	3	US-09-904-462-244	Sequence 244, App
c 691	13.8	76.7	2576	6	US-10-122-851-1034	Sequence 1034, Ap	c 764	13.8	76.7	3679	3	US-09-907-925-244	Sequence 244, App
c 692	13.8	76.7	2599	2	US-10-898-142-36	Sequence 36, Appl	c 765	13.8	76.7	3679	3	US-09-902-692-244	Sequence 244, App
c 693	13.8	76.7	2602	9	US-08-838-151A-17	Sequence 17, Appl	c 766	13.8	76.7	3679	3	US-09-903-520-244	Sequence 244, App
694	13.8	76.7	2622	7	US-10-282-122A-27621	Sequence 27621, A	c 767	13.8	76.7	3679	3	US-09-905-056-244	Sequence 244, App
c 695	13.8	76.7	2627	5	US-10-027-632-111849	Sequence 111849,	c 768	13.8	76.7	3679	3	US-09-909-064-244	Sequence 244, App
c 696	13.8	76.7	2627	6	US-10-027-632-111849	Sequence 111849,	c 769	13.8	76.7	3679	3	US-09-904-553-244	Sequence 244, App
c 697	13.8	76.7	2632	8	US-10-864-701-2	Sequence 2, Appli	c 770	13.8	76.7	3679	3	US-09-905-381-244	Sequence 244, App
c 698	13.8	76.7	2644	3	US-09-768-826-12	Sequence 12, Appl	c 771	13.8	76.7	3679	3	US-09-904-485-244	Sequence 244, App
c 699	13.8	76.7	2644	8	US-10-874-484-12	Sequence 12, Appl	c 772	13.8	76.7	3679	3	US-09-905-348-244	Sequence 244, App
c 700	13.8	76.7	2644	8	US-10-821-273-21	Sequence 21, Appl	c 773	13.8	76.7	3679	3	US-09-905-088-244	Sequence 244, App
c 701	13.8	76.7	2665	6	US-10-284-237-1371	Sequence 1371, Ap	c 774	13.8	76.7	3679	3	US-09-907-575-244	Sequence 244, App
c 702	13.8	76.7	2667	7	US-10-437-963-83867	Sequence 83867, A	c 775	13.8	76.7	3679	3	US-09-905-075-244	Sequence 244, App
c 703	13.8	76.7	2723	5	US-10-087-192-1112	Sequence 1112, Ap	c 776	13.8	76.7	3679	3	US-09-902-759-244	Sequence 244, App
c 704	13.8	76.7	2737	3	US-10-631-467-1187	Sequence 1187, Ap	c 777	13.8	76.7	3679	3	US-09-902-634-244	Sequence 244, App
c 705	13.8	76.7	2767	3	US-09-969-708-353	Sequence 353, App	c 778	13.8	76.7	3679	3	US-09-902-713-244	Sequence 244, App
c 706	13.8	76.7	2767	9	US-10-843-641A-7824	Sequence 7824, Ap	c 779	13.8	76.7	3679	3	US-09-907-979-244	Sequence 244, App
c 707	13.8	76.7	2767	9	US-10-956-157-922	Sequence 922, App	c 780	13.8	76.7	3679	3	US-09-902-615-244	Sequence 244, App
c 708	13.8	76.7	2773	9	US-10-450-763-30086	Sequence 30086, A	c 781	13.8	76.7	3679	3	US-09-903-925-244	Sequence 244, App
c 709	13.8	76.7	2776	5	US-10-450-763-17489	Sequence 17489, A	c 782	13.8	76.7	3679	3	US-09-906-760A-244	Sequence 244, App
c 710	13.8	76.7	2810	5	US-10-087-993-35	Sequence 35, Appl	c 783	13.8	76.7	3679	3	US-09-903-823-244	Sequence 244, App
c 711	13.8	76.7	2859	6	US-10-108-260A-1056	Sequence 1056, Ap	c 784	13.8	76.7	3679	3	US-09-907-652-244	Sequence 244, App
c 712	13.8	76.7	2969	7	US-10-302-172-388	Sequence 388, App	c 785	13.8	76.7	3679	3	US-09-902-572A-244	Sequence 244, App
c 713	13.8	76.7	2975	6	US-10-108-260A-1117	Sequence 1117, Ap	c 786	13.8	76.7	3679	3	US-09-902-979-244	Sequence 244, App
c 714	13.8	76.7	3102	9	US-10-956-157-2411	Sequence 2411, Ap	c 787	13.8	76.7	3679	3	US-09-905-125-244	Sequence 244, App
c 715	13.8	76.7	3132	9	US-10-450-763-10737	Sequence 10737, A	c 788	13.8	76.7	3679	3	US-09-906-815A-244	Sequence 244, App
c 716	13.8	76.7	3132	9	US-10-450-763-15107	Sequence 15107, A	c 789	13.8	76.7	3679	3	US-09-905-449-244	Sequence 244, App
c 717	13.8	76.7	3132	9	US-10-450-763-18179	Sequence 18179, A	c 790	13.8	76.7	3679	3	US-09-903-806-244	Sequence 244, App
c 718	13.8	76.7	3132	9	US-10-450-763-30114	Sequence 30114, A	c 791	13.8	76.7	3679	3	US-09-904-992-244	Sequence 244, App
c 719	13.8	76.7	3149	3	US-09-978-168-3	Sequence 3, Appli	c 792	13.8	76.7	3679	3	US-09-904-838-244	Sequence 244, App
c 720	13.8	76.7	3159	9	US-10-450-763-25161	Sequence 25161, A	c 793	13.8	76.7	3679	3	US-09-906-777-244	Sequence 244, App
c 721	13.8	76.7	3170	8	US-10-425-115-63897	Sequence 63897, A	c 794	13.8	76.7	3679	3	US-09-903-603A-244	Sequence 244, App
c 722	13.8	76.7	3189	9	US-10-450-763-28941	Sequence 28941, A	c 795	13.8	76.7	3679	3	US-09-904-532-244	Sequence 244, App
c 723	13.8	76.7	3207	6	US-10-274-583-13	Sequence 13, Appl	c 796	13.8	76.7	3679	3	US-09-904-766-244	Sequence 244, App
c 724	13.8	76.7	3207	6	US-10-274-583-9	Sequence 9, Appli	c 797	13.8	76.7	3679	3	US-09-904-920A-244	Sequence 244, App
c 725	13.8	76.7	3227	6	US-10-274-583-10	Sequence 10, Appl	c 798	13.8	76.7	3679	3	US-09-904-877A-244	Sequence 244, App
c 726	13.8	76.7	3227	9	US-10-756-149-4213	Sequence 4213, Ap	c 799	13.8	76.7	3679	3	US-09-903-562-244	Sequence 244, App
c 727	13.8	76.7	3233	3	US-09-925-302-75	Sequence 75, Appl	c 800	13.8	76.7	3679	3	US-09-906-618-244	Sequence 244, App
c 728	13.8	76.7	3233	3	US-09-925-302-75	Sequence 75, Appl	c 801	13.8	76.7	3679	3	US-09-907-728-244	Sequence 244, App
c 729	13.8	76.7	3234	9	US-10-781-060-10	Sequence 10, Appl	c 802	13.8	76.7	3679	3	US-09-904-805-244	Sequence 244, App
c 730	13.8	76.7	3264	9	US-10-450-763-26697	Sequence 26697, A	c 803	13.8	76.7	3679	3	US-09-906-722A-244	Sequence 244, App
c 731	13.8	76.7	3275	3	US-09-814-353-19982	Sequence 19982, A	c 804	13.8	76.7	3679	3	US-09-908-576-244	Sequence 244, App
c 732	13.8	76.7	3311	9	US-10-491-467-81	Sequence 81, Appl	c 805	13.8	76.7	3679	3	US-10-125-166-2	Sequence 2, Appli
c 733	13.8	76.7	3308	6	US-10-094-749-876	Sequence 876, App	c 806	13.8	76.7	3679	6	US-10-125-166-2	Sequence 2, Appli
c 734	13.8	76.7	3349	6	US-10-499-352A-42	Sequence 42, Appl	c 807	13.8	76.7	3679	6	US-10-299-976-244	Sequence 244, App
c 735	13.8	76.7	3591	9	US-10-491-467-56	Sequence 56, Appl	c 808	13.8	76.7	3679	6	US-10-299-937-244	Sequence 244, App
c 736	13.8	76.7	3679	3	US-09-909-320-244	Sequence 244, App	c 809	13.8	76.7	3679	6	US-10-298-993-244	Sequence 244, App
c 737	13.8	76.7	3679	3	US-09-909-320-244	Sequence 244, App	c 810	13.8	76.7	3679	6	US-10-448-923-244	Sequence 244, App
c 738	13.8	76.7	3679	3	US-09-905-291A-244	Sequence 244, App	c 811	13.8	76.7	3679	6	US-10-448-923-244	Sequence 244, App
c 739	13.8	76.7	3679	3	US-09-902-853-244	Sequence 244, App	c 812	13.8	76.7	3679	6	US-10-448-923-244	Sequence 244, App
c 740	13.8	76.7	3679	3	US-09-907-841-244	Sequence 244, App	c 813	13.8	76.7	3679	6	US-10-448-923-244	Sequence 244, App
c 741	13.8	76.7	3679	3	US-09-907-841-244	Sequence 244, App	c 814	13.8	76.7	3679	7	US-10-425-447-244	Sequence 244, App
c 742	13.8	76.7	3679	3	US-09-904-011-244	Sequence 244, App	c 815	13.8	76.7	3679	7	US-10-215-371-244	Sequence 244, App
c 743	13.8	76.7	3679	3	US-09-903-640-244	Sequence 244, App	c 816	13.8	76.7	3679	8	US-10-797-366-244	Sequence 244, App
c 744	13.8	76.7	3679	3	US-09-908-093-244	Sequence 244, App	c 817	13.8	76.7	3679	8	US-10-771-187-244	Sequence 244, App
c 745	13.8	76.7	3679	3	US-09-906-742-244	Sequence 244, App	c 818	13.8	76.7	3679	9	US-10-916-250-2	Sequence 2, Appli
c 746	13.8	76.7	3679	3	US-09-906-838-244	Sequence 244, App	c 819	13.8	76.7	3679	9	US-10-963-467-244	Sequence 244, App
c 747	13.8	76.7	3679	3	US-09-907-613-244	Sequence 244, App	c 820	13.8	76.7	3679	9	US-10-978-255-244	Sequence 244, App
c 748	13.8	76.7	3679	3	US-09-907-942-244	Sequence 244, App	c 821	13.8	76.7	3679	9	US-10-970-823-244	Sequence 244, App
c 749	13.8	76.7	3679	3	US-09-904-859-244	Sequence 244, App	c 822	13.8	76.7	3679	9	US-10-989-826-60	Sequence 60, Appl
c 750	13.8	76.7	3679	3	US-09-904-820-244	Sequence 244, App	c 823	13.8	76.7	3679	5	US-10-437-963-35965	Sequence 35965, A
c 751	13.8	76.7	3679	3	US-09-904-820-244	Sequence 244, App	c 824	13.8	76.7	3679	10	US-10-128-714-5457	Sequence 5457, Ap
c 752	13.8	76.7	3679	3	US-09-904-786-244	Sequence 244, App	c 825	13.8	76.7	3679	10	US-11-097-143-5626	Sequence 5626, Ap
c 753	13.8	76.7	3679	3	US-09-906-646-244	Sequence 244, App	c 826	13.8	76.7	3679	10	US-10-097-143-31876	Sequence 31876, A
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C 827	13.8	76.7	4079	8	US-10-331-053-43	Sequence 43, Appl	Sequence 43, Appl	900	13.8	76.7	24247	7	US-10-322-281-185	Sequence 185, App
C 828	13.8	76.7	4099	8	US-10-331-053-41	Sequence 41, Appl	Sequence 41, Appl	901	13.8	76.7	25849	5	US-10-087-192-1525	Sequence 1525, Ap
C 829	13.8	76.7	4105	8	US-10-331-053-45	Sequence 45, Appl	Sequence 45, Appl	902	13.8	76.7	27740	6	US-10-004-113-58	Sequence 58, Appl
C 830	13.8	76.7	4186	6	US-10-177-293-243	Sequence 243, App	Sequence 243, App	903	13.8	76.7	30274	9	US-10-450-763-21055	Sequence 21055, A
C 831	13.8	76.7	4186	6	US-10-172-118-37	Sequence 37, Appl	Sequence 37, Appl	904	13.8	76.7	30625	3	US-09-927-091-5	Sequence 5, Appli
C 832	13.8	76.7	4186	7	US-10-342-887-37	Sequence 37, Appl	Sequence 37, Appl	905	13.8	76.7	30676	3	US-09-927-091-8	Sequence 8, Appli
C 833	13.8	76.7	4186	9	US-10-848-755A-47	Sequence 47, Appl	Sequence 47, Appl	906	13.8	76.7	33454	5	US-10-087-192-1111	Sequence 1111, Ap
C 834	13.8	76.7	4215	3	US-09-829-472A-10	Sequence 10, Appl	Sequence 10, Appl	907	13.8	76.7	34750	10	US-11-097-143-21724	Sequence 21724, A
C 835	13.8	76.7	4354	9	US-10-956-157-4068	Sequence 4068, Ap	Sequence 4068, Ap	908	13.8	76.7	37051	6	US-10-004-113-55	Sequence 55, Appl
C 836	13.8	76.7	4359	5	US-10-084-817-124	Sequence 124, App	Sequence 124, App	909	13.8	76.7	38234	5	US-10-087-192-1762	Sequence 1762, Ap
C 837	13.8	76.7	4404	10	US-11-097-143-26122	Sequence 26122, A	Sequence 26122, A	910	13.8	76.7	39556	8	US-10-331-053-40	Sequence 40, Appl
C 838	13.8	76.7	4451	3	US-10-102-239-1	Sequence 1, Appli	Sequence 1, Appli	911	13.8	76.7	40152	10	US-11-097-143-23353	Sequence 23353, A
C 839	13.8	76.7	4465	3	US-09-955-363-1	Sequence 1, Appli	Sequence 1, Appli	912	13.8	76.7	40506	5	US-10-087-192-1216	Sequence 1216, Ap
C 840	13.8	76.7	4501	9	US-10-956-157-1848	Sequence 1848, Ap	Sequence 1848, Ap	913	13.8	76.7	42095	5	US-10-087-192-1939	Sequence 1939, Ap
C 841	13.8	76.7	4560	8	US-10-723-860-6203	Sequence 6203, Ap	Sequence 6203, Ap	914	13.8	76.7	43411	7	US-10-450-826-76	Sequence 76, Appl
C 842	13.8	76.7	4894	6	US-10-094-466-57	Sequence 57, Appl	Sequence 57, Appl	915	13.8	76.7	45845	3	US-09-927-091-6	Sequence 6, Appli
C 843	13.8	76.7	5029	5	US-10-087-192-1217	Sequence 1217, Ap	Sequence 1217, Ap	916	13.8	76.7	46594	9	US-10-915-740A-4	Sequence 4, Appli
C 844	13.8	76.7	5036	6	US-10-274-583-12	Sequence 12, Appl	Sequence 12, Appl	917	13.8	76.7	46594	9	US-10-915-740A-4	Sequence 4, Appli
C 845	13.8	76.7	5054	7	US-10-276-774-1048	Sequence 1048, Ap	Sequence 1048, Ap	918	13.8	76.7	53809	6	US-10-292-798-1253	Sequence 1253, Ap
C 846	13.8	76.7	5278	7	US-10-467-595-48	Sequence 48, Appl	Sequence 48, Appl	919	13.8	76.7	53954	5	US-10-087-192-262	Sequence 262, App
C 847	13.8	76.7	5286	9	US-10-756-149-1313	Sequence 1313, Ap	Sequence 1313, Ap	920	13.8	76.7	54355	3	US-09-997-722-19	Sequence 19, Appl
C 848	13.8	76.7	5332	5	US-10-198-846-9929	Sequence 9929, Ap	Sequence 9929, Ap	921	13.8	76.7	55001	6	US-10-160-497-4	Sequence 4, Appli
C 849	13.8	76.7	5570	6	US-10-007-926A-209	Sequence 209, App	Sequence 209, App	922	13.8	76.7	55001	9	US-10-348-750-4	Sequence 4, Appli
C 850	13.8	76.7	5570	7	US-10-101-510-28	Sequence 28, Appl	Sequence 28, Appl	923	13.8	76.7	55001	9	US-10-991-147-4	Sequence 4, Appli
C 851	13.8	76.7	5570	6	US-10-641-643-1193	Sequence 1193, Ap	Sequence 1193, Ap	924	13.8	76.7	56258	5	US-10-087-192-913	Sequence 913, App
C 852	13.8	76.7	5570	9	US-10-505-680-581	Sequence 581, App	Sequence 581, App	925	13.8	76.7	65047	5	US-10-719-993-6874	Sequence 6874, Ap
C 853	13.8	76.7	5588	3	US-09-917-800A-1565	Sequence 1565, Ap	Sequence 1565, Ap	926	13.8	76.7	68255	5	US-10-087-192-259	Sequence 259, App
C 854	13.8	76.7	5598	6	US-10-159-563-297	Sequence 297, App	Sequence 297, App	927	13.8	76.7	69706	6	US-10-087-192-772	Sequence 772, App
C 855	13.8	76.7	5598	9	US-10-326-806-5	Sequence 5, Appli	Sequence 5, Appli	928	13.8	76.7	75853	5	US-10-085-117-229	Sequence 229, App
C 856	13.8	76.7	5602	9	US-10-450-763-20744	Sequence 20744, A	Sequence 20744, A	929	13.8	76.7	76670	5	US-10-087-192-2050	Sequence 2050, App
C 857	13.8	76.7	5622	5	US-10-084-817-164	Sequence 164, Appl	Sequence 164, Appl	930	13.8	76.7	77478	5	US-10-087-192-1378	Sequence 1378, Ap
C 858	13.8	76.7	5746	9	US-10-936-626-78	Sequence 78, Appl	Sequence 78, Appl	931	13.8	76.7	80077	5	US-10-087-192-1789	Sequence 1789, Ap
C 859	13.8	76.7	5746	9	US-10-938-061-78	Sequence 78, Appl	Sequence 78, Appl	932	13.8	76.7	82121	6	US-10-085-117-136	Sequence 136, App
C 860	13.8	76.7	5855	8	US-10-783-528-52	Sequence 52, Appl	Sequence 52, Appl	933	13.8	76.7	83450	3	US-09-811-469-3	Sequence 3, Appli
C 861	13.8	76.7	5969	3	US-09-889-890-45	Sequence 45, Appl	Sequence 45, Appl	934	13.8	76.7	83450	6	US-10-370-659-3	Sequence 3, Appli
C 862	13.8	76.7	6093	7	US-10-322-281-460	Sequence 460, App	Sequence 460, App	935	13.8	76.7	83450	9	US-10-732-453-3	Sequence 3, Appli
C 863	13.8	76.7	6276	6	US-10-133-937-69	Sequence 69, Appl	Sequence 69, Appl	936	13.8	76.7	84105	7	US-10-741-601-5637	Sequence 5637, Ap
C 864	13.8	76.7	6276	6	US-10-159-563-69	Sequence 69, Appl	Sequence 69, Appl	937	13.8	76.7	92117	5	US-10-087-192-1348	Sequence 1348, Ap
C 865	13.8	76.7	6315	8	US-10-723-860-5421	Sequence 5421, Ap	Sequence 5421, Ap	938	13.8	76.7	94001	7	US-10-210-838-20	Sequence 20, Appl
C 866	13.8	76.7	6726	8	US-10-723-860-5368	Sequence 5368, Ap	Sequence 5368, Ap	939	13.8	76.7	102374	5	US-10-087-192-667	Sequence 667, App
C 867	13.8	76.7	6747	9	US-10-756-149-2129	Sequence 2129, Ap	Sequence 2129, Ap	940	13.8	76.7	136436	3	US-10-756-149-3773	Sequence 3773, Ap
C 868	13.8	76.7	6798	3	US-09-764-875-1216	Sequence 1216, Ap	Sequence 1216, Ap	941	13.8	76.7	143068	3	US-09-967-768A-316	Sequence 316, App
C 869	13.8	76.7	6798	6	US-10-242-355-815	Sequence 815, App	Sequence 815, App	942	13.8	76.7	143068	9	US-10-843-641A-6461	Sequence 6461, Ap
C 870	13.8	76.7	6868	5	US-10-328-531-13	Sequence 13, Appl	Sequence 13, Appl	943	13.8	76.7	143973	5	US-10-087-192-442	Sequence 442, App
C 871	13.8	76.7	7332	3	US-09-944-849-1	Sequence 1, Appli	Sequence 1, Appli	944	13.8	76.7	189013	8	US-10-484-577-669	Sequence 669, App
C 872	13.8	76.7	7454	10	US-11-097-143-4993	Sequence 4993, Ap	Sequence 4993, Ap	945	13.8	76.7	196063	7	US-10-322-281-612	Sequence 612, App
C 873	13.8	76.7	7596	6	US-10-004-113-57	Sequence 57, Appl	Sequence 57, Appl	946	13.8	76.7	196151	9	US-10-981-277-51	Sequence 51, Appl
C 874	13.8	76.7	7615	6	US-10-004-113-59	Sequence 59, Appl	Sequence 59, Appl	947	13.8	76.7	203132	7	US-10-322-281-459	Sequence 459, App
C 875	13.8	76.7	7673	3	US-09-815-925-1	Sequence 1, Appli	Sequence 1, Appli	948	13.8	76.7	213040	5	US-10-087-192-856	Sequence 856, App
C 876	13.8	76.7	7673	6	US-10-294-006-1	Sequence 1, Appli	Sequence 1, Appli	949	13.8	76.7	400660	8	US-10-388-838-68	Sequence 68, Appl
C 877	13.8	76.7	7693	6	US-10-160-497-11	Sequence 11, Appl	Sequence 11, Appl	950	13.8	76.7	439892	5	US-10-087-192-454	Sequence 454, App
C 878	13.8	76.7	7693	6	US-10-348-750-11	Sequence 11, Appl	Sequence 11, Appl	951	13.8	76.7	495635	9	US-10-737-082-12	Sequence 12, Appl
C 879	13.8	76.7	7693	7	US-10-072-012-133	Sequence 133, App	Sequence 133, App	952	13.8	76.7	495635	9	US-10-765-790-12	Sequence 12, Appl
C 880	13.8	76.7	7693	9	US-10-991-147-11	Sequence 11, Appl	Sequence 11, Appl	953	13.8	76.7	653458	9	US-10-461-862-4	Sequence 4, Appli
C 881	13.8	76.7	7861	6	US-10-120-988-305	Sequence 305, App	Sequence 305, App	954	13.8	76.7	705636	9	US-10-737-082-30	Sequence 30, Appl
C 882	13.8	76.7	8064	6	US-10-004-113-56	Sequence 56, Appl	Sequence 56, Appl	955	13.8	76.7	705636	9	US-10-765-790-30	Sequence 30, Appl
C 883	13.8	76.7	8078	3	US-09-764-864-1778	Sequence 1778, Ap	Sequence 1778, Ap	956	13.8	76.7	744802	6	US-10-292-798-1369	Sequence 1369, Ap
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C 888	13.8	76.7	11186	9	US-10-415-607-4	Sequence 4, Appli	Sequence 4, Appli	961	13.4	74.4	74.4	20	US-10-210-172-217	Sequence 217, App
C 889	13.8	76.7	12660	6	US-10-085-198-1	Sequence 1, Appli	Sequence 1, Appli	962	13.4	74.4	74.4	25	US-10-717-597-3421	Sequence 3421, Ap
C 890	13.8	76.7	12884	8	US-10-741-600-17634	Sequence 17634, A	Sequence 17634, A	963	13.4	74.4	74.4	25	US-10-717-597-3422	Sequence 3422, Ap
C 891	13.8	76.7	13339	10	US-11-097-143-8593	Sequence 8593, Ap	Sequence 8593, Ap	964	13.4	74.4	74.4	25	US-10-717-597-3423	Sequence 3423, Ap
C 892	13.8	76.7	13370	8	US-10-451-503A-3	Sequence 3, Appli	Sequence 3, Appli	965	13.4	74.4	74.4	25	US-10-717-597-3424	Sequence 3424, Ap
C 893	13.8	76.7	13440	5	US-10-213-948-12	Sequence 12, Appl	Sequence 12, Appl	966	13.4	74.4	74.4	25	US-10-717-597-3425	Sequence 3425, Ap
C 894	13.8	76.7	13686	9	US-10-450-763-30194	Sequence 30194, A	Sequence 30194, A	967	13.4	74.4	74.4	25	US-10-717-597-3426	Sequence 3426, Ap
C 895	13.8	76.7	13886	7	US-10-672-764A-68	Sequence 68, Appl	Sequence 68, Appl	968	13.4	74.4	74.4	25	US-10-681-773-22061	Sequence 22061, A
C 896	13.8	76.7	14399	7	US-10-287-226-321	Sequence 321, App	Sequence 321, App	969	13.4	74.4	74.4	25	US-10-681-773-42277	Sequence 42277, A
C 897	13.8	76.7	18750	8	US-10-719-993-6900	Sequence 6900, App	Sequence 6900, App	970	13.4	74.4	74.4	25	US-10-681-773-42769	Sequence 42769, A
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Sequence 14360, A  
Sequence 19091, A

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199 7 US-10-085-783A-17891  
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201 8 US-10-719-993-19091

# ALIGNMENTS

RESULT 1  
US-10-085-612-4  
; Sequence 4, Application US/10085612  
; Publication No. US20030096251A1  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Vredenburgh, James  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals  
; TITLE OF INVENTION: Compositions Therefor  
; FILE REFERENCE: 4389-S-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 1254  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612-4

Query Match 91.1%; Score 16.4; DB 5; Length 1254;  
Best Local Similarity 94.4%; Pred. No. 1.5e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18  
Db 691 GGGTCTGTCTGGCTGGC 708

RESULT 2  
US-09-925-065A-675137  
; Sequence 675137, Application US/09925065A

Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: Fast-Seq for Windows Version 4.0  
; SEQ ID NO 675137  
; LENGTH: 2214  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-675137

Query Match 91.1%; Score 16.4; DB 4; Length 2214;  
Best Local Similarity 94.4%; Pred. No. 1.4e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18  
Db 653 GGGTCTGTCTGGCTGGC 670

RESULT 3  
US-10-484-577-660  
; Sequence 660, Application US/10484577  
; Publication No. US20050032724A1  
; GENERAL INFORMATION:  
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A  
; FILE REFERENCE: F2285PCT-1  
; CURRENT APPLICATION NUMBER: US/10/484,577  
; CURRENT FILING DATE: 2004-01-22  
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
; PRIOR FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
; PRIOR FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: EP 02011710.7  
; PRIOR FILING DATE: 2002-05-24  
; NUMBER OF SEQ ID NOS: 683  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 660  
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; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-484-577-660

Query Match 91.1%; Score 16.4; DB 8; Length 177531;  
Best Local Similarity 94.4%; Pred. No. 84;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGC 18  
Db 15424 GGGTCTGTCTGGCTGGC 15441

RESULT 4  
US-10-501-282-1203  
; Sequence 1203, Application US/10501282  
; Publication No. US20050203280A1  
; GENERAL INFORMATION:



APPLICANT: MCMICHAEL, JOHN CALHOUN  
APPLICANT: ZAGURSKY, ROBERT JOHN  
APPLICANT: RUSSELL, DAVID PARRISH  
APPLICANT: FLETCHER, LEAH DIANE  
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING  
FILE REFERENCE: AM100780 L2  
CURRENT APPLICATION NUMBER: US/10/501,282  
PRIOR FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: 60/333,777  
PRIOR FILING DATE: 2001-11-29  
PRIOR APPLICATION NUMBER: 60/426,742  
PRIOR FILING DATE: 2002-11-18  
PRIOR APPLICATION NUMBER: PCT/US02/36123  
PRIOR FILING DATE: 2002-11-25  
NUMBER OF SEQ ID NOS: 6653  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 1203  
LENGTH: 360  
TYPE: DNA  
ORGANISM: Alloiococcus otitidis  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (73)..(357)  
US-10-501-282-1203

Query Match 88.9%; Score 16; DB 9; Length 360;  
Best Local Similarity 100.0%; Pred. No. 2.9e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16  
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Db 302 GGGTCTGCTGGCTGC 317

RESULT 5  
US-10-501-282-1201  
Sequence 1201, Application US/10501282  
Publication No. US20050203280A1  
GENERAL INFORMATION:  
APPLICANT: MCMICHAEL, JOHN CALHOUN  
APPLICANT: ZAGURSKY, ROBERT JOHN  
APPLICANT: RUSSELL, DAVID PARRISH  
APPLICANT: FLETCHER, LEAH DIANE  
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING  
FILE REFERENCE: AM100780 L2  
CURRENT APPLICATION NUMBER: US/10/501,282  
PRIOR FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: 60/333,777  
PRIOR FILING DATE: 2001-11-29  
PRIOR APPLICATION NUMBER: 60/426,742  
PRIOR FILING DATE: 2002-11-18  
PRIOR APPLICATION NUMBER: PCT/US02/36123  
PRIOR FILING DATE: 2002-11-25  
NUMBER OF SEQ ID NOS: 6653  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 1201  
LENGTH: 483  
TYPE: DNA  
ORGANISM: Alloiococcus otitidis  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (25)..(480)  
US-10-501-282-1201

Query Match 88.9%; Score 16; DB 9; Length 483;  
Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16  
|||||  
Db 375 GGGTCTGCTGGCTGC 390

## RESULT 6

US-10-501-282-1209/c  
Sequence 1209, Application US/10501282  
Publication No. US20050203280A1  
GENERAL INFORMATION:

APPLICANT: MCMICHAEL, JOHN CALHOUN  
APPLICANT: ZAGURSKY, ROBERT JOHN  
APPLICANT: RUSSELL, DAVID PARRISH  
APPLICANT: FLETCHER, LEAH DIANE  
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING  
FILE REFERENCE: AM100780 L2  
CURRENT APPLICATION NUMBER: US/10/501,282  
PRIOR FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: 60/333,777  
PRIOR FILING DATE: 2001-11-29  
PRIOR APPLICATION NUMBER: 60/426,742  
PRIOR FILING DATE: 2002-11-18  
PRIOR APPLICATION NUMBER: PCT/US02/36123  
PRIOR FILING DATE: 2002-11-25  
NUMBER OF SEQ ID NOS: 6653  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 1209  
LENGTH: 1065  
TYPE: DNA  
ORGANISM: Alloiococcus otitidis  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (19)..(1062)  
US-10-501-282-1209

Query Match 88.9%; Score 16; DB 9; Length 1065;  
Best Local Similarity 100.0%; Pred. No. 2.5e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16  
|||||  
Db 55 GGGTCTGCTGGCTGC 40

## RESULT 7

US-10-501-282-1211/c  
Sequence 1211, Application US/10501282  
Publication No. US20050203280A1  
GENERAL INFORMATION:

APPLICANT: MCMICHAEL, JOHN CALHOUN  
APPLICANT: ZAGURSKY, ROBERT JOHN  
APPLICANT: RUSSELL, DAVID PARRISH  
APPLICANT: FLETCHER, LEAH DIANE  
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING  
FILE REFERENCE: AM100780 L2  
CURRENT APPLICATION NUMBER: US/10/501,282  
PRIOR FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: 60/333,777  
PRIOR FILING DATE: 2001-11-29  
PRIOR APPLICATION NUMBER: 60/426,742  
PRIOR FILING DATE: 2002-11-18  
PRIOR APPLICATION NUMBER: PCT/US02/36123  
PRIOR FILING DATE: 2002-11-25  
NUMBER OF SEQ ID NOS: 6653  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 1211  
LENGTH: 1065  
TYPE: DNA  
ORGANISM: Alloiococcus otitidis  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (13)..(1062)  
US-10-501-282-1211

```
Query Match      88.9%; Score 16; DB 9; Length 1065;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16
Db 55 GGGTCTGTCTGGCTGC 40

RESULT 8
US-10-501-282-6651/c
; Sequence 6651, Application US/10501282
; Publication No. US20050203280A1
; GENERAL INFORMATION:
; APPLICANT: MCMICHAEL, JOHN CALHOUN
; APPLICANT: ZAGURSKI, ROBERT JOHN
; APPLICANT: RUSSELL, DAVID PARRISH
; APPLICANT: FLETCHER, LEAH DIANE
; TITLE OF INVENTION: ALLOTOCOCCLUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING
; TITLE OF INVENTION: POLYPEPTIDE ANTIGENS, IMMUNOGENIC COMPOSITIONS AND USES THEREOF
; FILE REFERENCE: AM100780 L2
; CURRENT APPLICATION NUMBER: US/10/501.282
; CURRENT FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: 60/333,777
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: 60/426,742
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: PCT/US02/36123
; PRIOR FILING DATE: 2002-11-25
; NUMBER OF SEQ ID NOS: 6653
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6651
; LENGTH: 1754382
; TYPE: DNA
; ORGANISM: Alloiococcus otitidis
; ORGANISM: Homo sapiens
US-10-501-282-6651

Query Match      88.9%; Score 16; DB 9; Length 1754382;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGC 16
Db 280060 GGGTCTGTCTGGCTGC 280045

RESULT 9
US-09-925-065A-81543
; Sequence 81543, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81543
; LENGTH: 662
; TYPE: DNA
; ORGANISM: Homo sapiens
```

```
US-09-925-065A-81543

Query Match      85.6%; Score 15.4; DB 4; Length 662;
Best Local Similarity 94.1%; Pred. No. 5.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGTCTGTCTGGCTGCG 18
Db 611 GGTCTGTCTGGCTGCG 627

RESULT 10
US-10-027-632-168189/c
; Sequence 168189, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027.632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 168189
; LENGTH: 913
; TYPE: DNA
; ORGANISM: Human
; ORGANISM: Homo sapiens
US-10-027-632-168189

Query Match      85.6%; Score 15.4; DB 5; Length 913;
Best Local Similarity 94.1%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17
Db 136 GGGCTGTCTGGCTGCG 120

RESULT 11
US-10-027-632-168190/c
; Sequence 168190, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027.632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
```

```
/ PRIOR FILING DATE: 1999-11-23
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ PRIOR FILING DATE: 1999-08-09
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: FastSEQ for Windows Version 4.0
/ SEQ ID NO 168190
/ LENGTH: 913
/ TYPE: DNA
/ ORGANISM: Human
US-10-027-632-168190

Query Match      85.6%; Score 15.4; DB 5; Length 913;
Best Local Similarity 94.1%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCTGCTGCTGGCTGCG 17
   ||| ||||| ||||| |||||
Db 136 GGGCCTGTCTGGCTGCG 120

RESULT 12
US-10-027-632-168189/c
/ Sequence 168189, Application US/10027632
/ Publication No. US20030204075A9
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
/ TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
/ TITLE OF INVENTION: Polymorphisms in the Human Genome
/ FILE REFERENCE: 108827.129
/ CURRENT APPLICATION NUMBER: US/10/027,632
/ CURRENT FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
/ PRIOR FILING DATE: 2000-07-12
/ PRIOR APPLICATION NUMBER: US 60/198,676
/ PRIOR FILING DATE: 2000-04-20
/ PRIOR APPLICATION NUMBER: US 60/193,483
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: US 60/185,218
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: US 60/167,363
/ PRIOR FILING DATE: 1999-11-23
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ PRIOR FILING DATE: 1999-08-09
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: FastSEQ for Windows Version 4.0
/ SEQ ID NO 168189
/ LENGTH: 913
/ TYPE: DNA
/ ORGANISM: Human
US-10-027-632-168189

Query Match      85.6%; Score 15.4; DB 6; Length 913;
Best Local Similarity 94.1%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCTGCTGCTGGCTGCG 17
   ||| ||||| ||||| |||||
Db 136 GGGCCTGTCTGGCTGCG 120

RESULT 13
US-10-027-632-168190/c
/ Sequence 168190, Application US/10027632
/ Publication No. US20030204075A9
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
/ TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
/ TITLE OF INVENTION: Polymorphisms in the Human Genome
/ FILE REFERENCE: 108827.129
```

```
/ CURRENT APPLICATION NUMBER: US/10/027,632
/ CURRENT FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
/ PRIOR FILING DATE: 2000-07-12
/ PRIOR APPLICATION NUMBER: US 60/198,676
/ PRIOR FILING DATE: 2000-04-20
/ PRIOR APPLICATION NUMBER: US 60/193,483
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: US 60/185,218
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: US 60/167,363
/ PRIOR FILING DATE: 1999-11-23
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ PRIOR FILING DATE: 1999-08-09
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: FastSEQ for Windows Version 4.0
/ SEQ ID NO 168190
/ LENGTH: 913
/ TYPE: DNA
/ ORGANISM: Human
US-10-027-632-168190

Query Match      85.6%; Score 15.4; DB 6; Length 913;
Best Local Similarity 94.1%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCTGCTGCTGGCTGCG 17
   ||| ||||| ||||| |||||
Db 136 GGGCCTGTCTGGCTGCG 120

RESULT 14
US-09-925-065A-287488/c
/ Sequence 287488, Application US/09925065A
/ Publication No. US20050228172A9
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
/ TITLE OF INVENTION: Identification and Mapping of Single
/ TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
/ FILE REFERENCE: 108827.135
/ CURRENT APPLICATION NUMBER: US/09/925,065A
/ CURRENT FILING DATE: 2001-08-08
/ PRIOR APPLICATION NUMBER: US 60/243,096
/ PRIOR FILING DATE: 2000-10-24
/ PRIOR APPLICATION NUMBER: US 60/252,147
/ PRIOR FILING DATE: 2000-11-20
/ PRIOR APPLICATION NUMBER: US 60/250,092
/ PRIOR FILING DATE: 2000-11-30
/ PRIOR APPLICATION NUMBER: US 60/261,766
/ PRIOR FILING DATE: 2001-01-16
/ PRIOR APPLICATION NUMBER: US 60/289,846
/ PRIOR FILING DATE: 2001-05-09
/ NUMBER OF SEQ ID NOS: 957086
/ SOFTWARE: FastSEQ for Windows Version 4.0
/ SEQ ID NO 287488
/ LENGTH: 1064
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-925-065A-287488

Query Match      85.6%; Score 15.4; DB 4; Length 1064;
Best Local Similarity 94.1%; Pred. No. 4.9e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGTCTGTCTGGCTGCGC 18
   ||||| ||||| ||||| |||||
Db 289 GGTCTGTCTGGCTGCTC 273

RESULT 15
US-10-282-122A-31757/c
```

; Sequence 31757, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: EUIRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 31757  
; LENGTH: 1896  
; TYPE: DNA  
; ORGANISM: Pseudomonas putida  
US-10-282-122A-31757

Query Match 85.6%; Score 15.4; DB 7; Length 1896;  
Best Local Similarity 94.1%; Pred. No. 4.6e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGTCGTCTGCTGCTGCGC 18  
| | | | | | | | | | | | | | | | | | | | | |  
Db 766 GGTCGTCTGCTGCTGCGC 750

RESULT 16  
US-10-001-192A-18  
; Sequence 18, Application US/10001192A  
; Publication No. US20040091958A1  
; GENERAL INFORMATION:  
; APPLICANT: Ooijen, Albert  
; APPLICANT: Verdoes, Jan  
; APPLICANT: Wery, Jan  
; TITLE OF INVENTION: IMPROVED METHODS FOR TRANSFORMING  
; TITLE OF INVENTION: PHAFFIA STRAINS, TRANSFORMED PHAFFIA STRAINS SO OBTAINED AND  
; TITLE OF INVENTION: RECOMBINANT DNA IN SAID METHODS  
; FILE REFERENCE: 24615-20104.01  
; CURRENT APPLICATION NUMBER: US/10/001,192A  
; CURRENT FILING DATE: 2002-06-11  
; PRIOR APPLICATION NUMBER: EP 95203620.0  
; PRIOR FILING DATE: 1995-12-22

; PRIOR APPLICATION NUMBER: EP96200943.7  
; PRIOR FILING DATE: 1996-04-11  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 18  
; LENGTH: 2470  
; TYPE: DNA  
; ORGANISM: Phaffia rhodozyma  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (177)...(2198)  
US-10-001-192A-18

Query Match 85.6%; Score 15.4; DB 7; Length 2470;  
Best Local Similarity 94.1%; Pred. No. 4.4e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCTCTGTCTGCTGCGC 17  
| | | | | | | | | | | | | | | | | | | | | |  
Db 908 GGCTCTGTCTGCTGCGC 924

RESULT 17  
US-10-001-192A-12  
; Sequence 12, Application US/10001192A  
; Publication No. US20040091958A1  
; GENERAL INFORMATION:  
; APPLICANT: Ooijen, Albert  
; APPLICANT: Verdoes, Jan  
; APPLICANT: Wery, Jan  
; TITLE OF INVENTION: IMPROVED METHODS FOR TRANSFORMING  
; TITLE OF INVENTION: PHAFFIA STRAINS, TRANSFORMED PHAFFIA STRAINS SO OBTAINED AND  
; TITLE OF INVENTION: RECOMBINANT DNA IN SAID METHODS  
; FILE REFERENCE: 24615-20104.01  
; CURRENT APPLICATION NUMBER: US/10/001,192A  
; CURRENT FILING DATE: 2002-06-11  
; PRIOR APPLICATION NUMBER: EP 95203620.0  
; PRIOR FILING DATE: 1995-12-22  
; PRIOR APPLICATION NUMBER: EP96200943.7  
; PRIOR FILING DATE: 1996-04-11  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12  
; LENGTH: 2546  
; TYPE: DNA  
; ORGANISM: Phaffia rhodozyma  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (225)...(2246)  
US-10-001-192A-12

Query Match 85.6%; Score 15.4; DB 7; Length 2546;  
Best Local Similarity 94.1%; Pred. No. 4.4e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCTCTGTCTGCTGCGC 17  
| | | | | | | | | | | | | | | | | | | | | |  
Db 956 GGCTCTGTCTGCTGCGC 972

RESULT 18  
US-10-282-122A-26645  
; Sequence 26645, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John

```
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26645
; LENGTH: 2625
; TYPE: DNA
; ORGANISM: Mycobacterium bovis
US-10-282-122A-26645

Query Match      85.6%; Score 15.4; DB 7; Length 2625;
Best Local Similarity 94.1%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGCG 17
DB      432 GGATCTGCTGGCTGCG 448

RESULT 19
US-10-282-122A-28335
; Sequence 28335, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haseibeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
```

```
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28335
; LENGTH: 2628
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-28335

Query Match      85.6%; Score 15.4; DB 7; Length 2628;
Best Local Similarity 94.1%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGCG 17
DB      432 GGATCTGCTGGCTGCG 448

RESULT 20
US-10-041-859-1
; Sequence 1, Application US/10041859
; Publication No. US20030049796A1
; GENERAL INFORMATION:
; APPLICANT: HUANG, QIHONG
; APPLICANT: REED, JOHN C.
; APPLICANT: DEVERAUX, QUINN L.
; APPLICANT: MAEDA, SUSUMU
; TITLE OF INVENTION: INHIBITOR OF APOPTOSIS PROTEINS AND NUCLEIC ACIDS AND
; FILE REFERENCE: 087102/027 2537
; CURRENT APPLICATION NUMBER: US/10/041,859
; CURRENT FILING DATE: 2002-01-07
; PRIOR APPLICATION NUMBER: 60/260,478
; PRIOR FILING DATE: 2001-01-08
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 3773
; TYPE: DNA
; ORGANISM: Bombyx mori
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (2733)..(3770)
US-10-041-859-1

Query Match      85.6%; Score 15.4; DB 5; Length 3773;
Best Local Similarity 94.1%; Pred. No. 4.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGCG 17
DB      75 GGTTCTGCTGGCTGCG 91

RESULT 21
US-10-749-104-21
; Sequence 21, Application US/10749104
; Publication No. US20040265274A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Shen Zhen Tsinghua Yuanxing Bio-Pharm Science & Technology Co., Ltd.
; TITLE OF INVENTION: Anti-Tumor Molecular Vaccine and Method of making thereof
; FILE REFERENCE: CGCNS31755
; CURRENT APPLICATION NUMBER: US/10/749,104
; CURRENT FILING DATE: 2003-12-29
; PRIOR APPLICATION NUMBER: CN02159602.6
; PRIOR FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 4134
; TYPE: DNA
; ORGANISM: 1-O(Drosophila melanogaster)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(3630)
; OTHER INFORMATION:
US-10-749-104-21

Query Match      85.6%; Score 15.4; DB 8; Length 4134;
Best Local Similarity 94.1%; Pred. No. 4.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCG 17
      ||| ||||| ||||| |||||
Db      2574 GGCTCTGTCTGGCTGCG 2590

RESULT 22
US-10-749-104-23
; Sequence 23, Application US/10749104
; Publication No. US20040265274A1
; GENERAL INFORMATION:
; APPLICANT: Shen Zhen Tsinghua Yuanxing Bio-Pharm Science & Technology Co., Ltd.
; TITLE OF INVENTION: Anti-Tumor Molecular Vaccine and Method of making thereof
; FILE REFERENCE: CGCNS31755
; CURRENT APPLICATION NUMBER: US/10/749,104
; CURRENT FILING DATE: 2003-12-29
; PRIOR APPLICATION NUMBER: CN02159602.6
; PRIOR FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 4281
; TYPE: DNA
; ORGANISM: 1-O(Drosophila melanogaster)
US-10-749-104-23

Query Match      85.6%; Score 15.4; DB 8; Length 4281;
Best Local Similarity 94.1%; Pred. No. 4.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCG 17
      ||| ||||| ||||| |||||
Db      2721 GGCTCTGTCTGGCTGCG 2737

RESULT 23
US-10-749-104-24
; Sequence 24, Application US/10749104
; Publication No. US20040265274A1
; GENERAL INFORMATION:
; APPLICANT: Shen Zhen Tsinghua Yuanxing Bio-Pharm Science & Technology Co., Ltd.
; TITLE OF INVENTION: Anti-Tumor Molecular Vaccine and Method of making thereof
; FILE REFERENCE: CGCNS31755
; CURRENT APPLICATION NUMBER: US/10/749,104
; CURRENT FILING DATE: 2003-12-29
; PRIOR APPLICATION NUMBER: CN02159602.6
; PRIOR FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 4281
```

```
; TYPE: DNA
; ORGANISM: E (Rattus norvegicus)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(3627)
; OTHER INFORMATION:
US-10-749-104-24

Query Match      85.6%; Score 15.4; DB 8; Length 4281;
Best Local Similarity 94.1%; Pred. No. 4.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGCG 17
      ||| ||||| ||||| |||||
Db      2721 GGCTCTGTCTGGCTGCG 2737

RESULT 24
US-09-764-869-1740/c
; Sequence 1740, Application US/09764869
; Patent No. US20020061521A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007
; CURRENT APPLICATION NUMBER: US/09/764,869
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1740
; LENGTH: 5628
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-869-1740

Query Match      85.6%; Score 15.4; DB 3; Length 5628;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCGC 18
      ||||| ||||| ||||| |||||
Db      587 GGTCTGTCTGGCTCGC 571

RESULT 25
US-09-764-891-5912/c
; Sequence 5912, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5912
; LENGTH: 5628
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-891-5912

Query Match      85.6%; Score 15.4; DB 3; Length 5628;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GGTCTGTCTGGCTGCGC 18
      ||||| ||||| ||||| |||||
Db      587 GGTCTGTCTGGCTCGC 571
```

```
RESULT 26
US-10-091-504-1740/c
; Sequence 1740, Application US/10091504
; Publication No. US20030059908A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C1
; CURRENT APPLICATION NUMBER: US/10/091,504
; CURRENT FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 2442
; Prior Application removed - See File Wrapper or Palm
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1740
; LENGTH: 5628
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-091-504-1740

Query Match      85.6%; Score 15.4; DB 5; Length 5628;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTCCGC 18
        |||||
Db      587 GGTCTGCTGGCTCCGC 571

RESULT 27
US-10-227-577-1740/c
; Sequence 1740, Application US/10227577
; Publication No. US20040005575A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C2
; CURRENT APPLICATION NUMBER: US/10/227,577
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: 10/091,504
; PRIOR FILING DATE: 2002-03-07
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 09/764,869
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447
; PRIOR FILING DATE: 2000-08-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1740
; LENGTH: 5628
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-227-577-1740

Query Match      85.6%; Score 15.4; DB 6; Length 5628;
Best Local Similarity 94.1%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTCCGC 18
        |||||
Db      587 GGTCTGCTGGCTCCGC 18

RESULT 28
US-09-764-869-1738/c
; Sequence 1738, Application US/09764869
; Patent No. US20020061521A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007
; CURRENT APPLICATION NUMBER: US/09/764,869
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1738
; LENGTH: 7911
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-869-1738

Query Match      85.6%; Score 15.4; DB 3; Length 7911;
Best Local Similarity 94.1%; Pred. No. 3.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTCCGC 18
        |||||
Db      2465 GGTCTGCTGGCTCCGC 2449

RESULT 29
US-09-764-891-5911/c
; Sequence 5911, Application US/09764891
; Publication No. US2003007808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5911
; LENGTH: 7911
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-891-5911

Query Match      85.6%; Score 15.4; DB 3; Length 7911;
Best Local Similarity 94.1%; Pred. No. 3.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTCCGC 18
        |||||
Db      2465 GGTCTGCTGGCTCCGC 2449

RESULT 30
US-10-091-504-1738/c
; Sequence 1738, Application US/10091504
; Publication No. US20030059908A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C1
; CURRENT APPLICATION NUMBER: US/10/091,504
; CURRENT FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 2442
; Prior Application removed - See File Wrapper or Palm
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1738
```





Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTG 15  
| | | | | | | | | |  
Db 370 GGGTCTGCTGGCTG 356

## RESULT 34

US-10-027-632-305919/c  
; Sequence 305919, Application US/10027632  
; Publication No. US20020198371A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 305919  
; LENGTH: 588  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-305919

Query Match 83.3%; Score 15; DB 5; Length 588;

Best Local Similarity 100.0%; Pred. No. 8.4e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTG 15  
| | | | | | | | | |  
Db 370 GGGTCTGCTGGCTG 356

## RESULT 35

US-10-027-632-95731/c  
; Sequence 95731, Application US/10027632  
; Publication No. US20030204075A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002

; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 95731  
; LENGTH: 588  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-95731

Query Match 83.3%; Score 15; DB 6; Length 588;  
Best Local Similarity 100.0%; Pred. No. 8.4e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTG 15  
| | | | | | | | | |  
Db 370 GGGTCTGCTGGCTG 356

## RESULT 36

US-10-027-632-305919/c  
; Sequence 305919, Application US/10027632  
; Publication No. US20030204075A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 305919  
; LENGTH: 588  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-305919

Query Match 83.3%; Score 15; DB 6; Length 588;

Best Local Similarity 100.0%; Pred. No. 8.4e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTG 15  
| | | | | | | | | |  
Db 370 GGGTCTGCTGGCTG 356

## RESULT 37

US-10-425-115-26760/c  
; Sequence 26760, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115

; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 26760  
; LENGTH: 2706  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_124414C.1  
US-10-425-115-26760

Query Match 83.3%; Score 15; DB 8; Length 2706;  
Best Local Similarity 100.0%; Pred. No. 6.9e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGCTGGCTGC 16

Db 330 GGCTGCTGGCTGC 316

RESULT 38

US-10-719-956-132460  
; Sequence 132460, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:

; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; CURRENT APPLICATION NUMBER: US/10719,956  
; FILE REFERENCE: 3527.1  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,836  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 132460  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-132460

Query Match 82.2%; Score 14.8; DB 7; Length 25;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 18

Db 4 GGGTCTGATGGCTGTC 21

RESULT 39

US-10-719-900-651065/c  
; Sequence 651065, Application US/10719900  
; Publication No. US20050026164A1  
; GENERAL INFORMATION:

; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse  
; FILE REFERENCE: 3528.1  
; CURRENT APPLICATION NUMBER: US/10719,900  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,808  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 982914  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 651065  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-719-900-651065

Query Match 82.2%; Score 14.8; DB 8; Length 25;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 18

Db 25 GTGCTGCTGCTGCTGC 8

RESULT 40

US-10-702-075-396/c  
; Sequence 396, Application US/10702075  
; Publication No. US20040168209A1  
; GENERAL INFORMATION:

; APPLICANT: Abuin, Alejandro  
; APPLICANT: Zambrowicz, Brian  
; APPLICANT: Sands, Arthur T.  
; TITLE OF INVENTION: Novel Murine Polynucleotide Sequences  
; TITLE OF INVENTION: and Mutant Cells and Mutant Animals Defined Thereby  
; FILE REFERENCE: LEX-0192-USA  
; CURRENT APPLICATION NUMBER: US/10702,075  
; CURRENT FILING DATE: 2003-11-04  
; PRIOR APPLICATION NUMBER: 09/880,687  
; PRIOR FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: US 60/211,232  
; PRIOR FILING DATE: 2000-06-12  
; NUMBER OF SEQ ID NOS: 1159  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 396  
; LENGTH: 257  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(257)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-702-075-396

Query Match 82.2%; Score 14.8; DB 7; Length 257;  
Best Local Similarity 88.9%; Pred. No. 1.2e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGCTGGCTGC 18

Db 118 GGGCTGCTGCTGGCTGTC 101

RESULT 41

US-10-242-535A-595/c  
; Sequence 595, Application US/10242535A  
; Publication No. US20040013663A1  
; GENERAL INFORMATION:

; APPLICANT: ChondroGene Inc.  
; APPLICANT: Liew, C.C.  
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis  
; FILE REFERENCE: 4231/2005  
; CURRENT APPLICATION NUMBER: US/10242,535A  
; CURRENT FILING DATE: 2002-09-12  
; PRIOR APPLICATION NUMBER: US 10/085,783  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 60/305,340  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/275,017  
; PRIOR FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 60/271,955  
; PRIOR FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 595  
; LENGTH: 270  
; TYPE: DNA  
; ORGANISM: Human  
US-10-242-535A-595

Query Match 82.2%; Score 14.8; DB 7; Length 270;  
Best Local Similarity 88.9%; Pred. No. 1.2e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGGCG 18  
|||||  
Db 23 GGGTCTGCTGGCTCCTC 6

## RESULT 42

US-10-085-783A-595/c  
; Sequence 595, Application US/10085783A  
; Publication No. US20040037841A1  
; GENERAL INFORMATION:  
; APPLICANT: Liow, C.C.  
; APPLICANT: ChondroGene Inc.  
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis  
; FILE REFERENCE: 4231/2002  
; CURRENT APPLICATION NUMBER: US/10/085,783A  
; CURRENT FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 60/305,340  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/275,017  
; PRIOR FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 60/271,955  
; PRIOR FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 595  
; LENGTH: 270  
; TYPE: DNA  
; ORGANISM: Human  
US-10-085-783A-595

Query Match 82.2%; Score 14.8; DB 7; Length 270;  
Best Local Similarity 88.9%; Pred. No. 1.2e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGGCG 18  
|||||  
Db 23 GGGTCTGCTGGCTCCTC 6

## RESULT 43

US-10-425-115-166794/c  
; Sequence 166794, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 166794  
; LENGTH: 348  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_83694C.1  
US-10-425-115-166794

Query Match 82.2%; Score 14.8; DB 8; Length 348;  
Best Local Similarity 88.9%; Pred. No. 1.1e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGGCG 18  
|||||  
Db 56 GCGTCTGCTGCTGCTGGCG 39

## RESULT 44

US-10-425-115-24643/c

; Sequence 24643, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 24643  
; LENGTH: 422  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_122482C.1  
US-10-425-115-24643

Query Match 82.2%; Score 14.8; DB 8; Length 422;  
Best Local Similarity 88.9%; Pred. No. 1.1e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGGCG 18  
|||||  
Db 304 GGCTCGTCTGGCTGGCG 287

## RESULT 45

US-09-918-995-28345  
; Sequence 28345, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 28345  
; LENGTH: 474  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(474)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-918-995-28345

Query Match 82.2%; Score 14.8; DB 3; Length 474;  
Best Local Similarity 88.9%; Pred. No. 1.1e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGGCG 18  
|||||  
Db 440 GGGTCTGCTGCTGCTGCAC 457

## RESULT 46

US-09-925-065A-219275  
; Sequence 219275, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; FILE REFERENCE: 108827.135

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; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 219275
; LENGTH: 478
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-219275

Query Match      82.2%; Score 14.8; DB 4; Length 478;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGGCC 18
        ||| ||||| ||||| ||
DB      47 GGCTCTGCTGGCTGCTC 64

RESULT 47
US-09-925-065A-219276
; Sequence 219276, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 219276
; LENGTH: 478
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-219276

Query Match      82.2%; Score 14.8; DB 4; Length 478;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGGCC 18
        ||| ||||| ||||| ||
DB      47 GGCTCTGCTGGCTGCTC 64

RESULT 48
US-09-918-995-27482/c
; Sequence 27482, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyvesec, Inc.

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; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: Fast-SEQ for Windows Version 4.0  
; SEQ ID NO 471688  
; LENGTH: 486  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-471688

Query Match 82.2%; Score 14.8; DB 4; Length 486;  
Best Local Similarity 88.9%; Pred.No. 1.1e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGTGGCGC 18  
|||||  
Db 90 GGGTCTGCTGCTGGCAC 73

Search completed: January 11, 2006, 04:37:17  
Job time : 398.364 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:06:24 ; Search time 365.636 Seconds  
(without alignments)  
39.844 Million cell updates/sec

Title: US-09-869-169C-11  
Perfect score: 18  
Sequence: 1 ggggtgtctggtgcgc 18

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 6038814 seqs, 404674181 residues

Total number of hits satisfying chosen parameters: 12077628

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications NA\_New.\*

- 1: /cgn2\_6/prodata/2/pubpna/US08\_NEW\_PUB.seq.\*
- 2: /cgn2\_6/prodata/2/pubpna/US06\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/prodata/2/pubpna/US07\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/prodata/2/pubpna/PCT\_NEW\_PUB.seq.\*
- 5: /cgn2\_6/prodata/2/pubpna/US09\_NEW\_PUB.seq.\*
- 6: /cgn2\_6/prodata/2/pubpna/US10\_NEW\_PUB.seq.\*
- 7: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/prodata/2/pubpna/US12\_NEW\_PUB.seq.\*
- 9: /cgn2\_6/prodata/2/pubpna/US13\_NEW\_PUB.seq.\*
- 10: /cgn2\_6/prodata/2/pubpna/US60\_NEW\_PUB.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15.4	85.6	2883	6	US-10-750-185-48505 Sequence 48505, A
2	15.4	85.6	2883	6	US-10-750-623-48505 Sequence 48505, A
3	15	83.3	1619	6	US-10-750-185-34411 Sequence 34411, A
4	15	83.3	1619	6	US-10-750-623-34411 Sequence 34411, A
5	15	83.3	3137	6	US-10-750-185-61405 Sequence 61405, A
6	15	83.3	3137	6	US-10-750-623-61405 Sequence 61405, A
7	14.8	82.2	20	6	US-10-310-914A-1178608 Sequence 1178608, A
8	14.8	82.2	21	6	US-10-310-914A-1178611 Sequence 1178611, A
9	14.8	82.2	23	6	US-10-310-914A-961492 Sequence 961492, A
10	14.8	82.2	23	6	US-10-310-914A-1178585 Sequence 1178585, A
11	14.8	82.2	24	6	US-10-310-914A-1178603 Sequence 1178603, A
12	14.8	82.2	600	6	US-10-750-185-1996 Sequence 1996, A
13	14.8	82.2	600	6	US-10-750-623-1996 Sequence 1996, A
14	14.8	82.2	780	6	US-10-453-372-815 Sequence 815, A
15	14.8	82.2	840	6	US-10-453-372-813 Sequence 813, A
16	14.8	82.2	1567	6	US-10-750-185-43064 Sequence 43064, A
17	14.8	82.2	1567	6	US-10-750-623-43064 Sequence 43064, A
18	14.8	82.2	1977	6	US-11-136-527-2881 Sequence 2881, A
19	14.8	82.2	2919	6	US-10-955-054A-180 Sequence 180, A
20	14.8	82.2	18171	7	US-11-136-527-3735 Sequence 3735, A
21	14.8	82.2	153376	7	US-11-121-086-5 Sequence 5, A
22	14.4	80.0	201	6	US-10-995-561-28757 Sequence 28757, A
23	14.4	80.0	201	6	US-10-995-561-71684 Sequence 71684, A

24	14.4	80.0	600	7	US-11-128-061-7099 Sequence 7099, A
25	14.4	80.0	1344	6	US-10-750-185-61704 Sequence 61704, A
26	14.4	80.0	1344	6	US-10-750-623-61704 Sequence 61704, A
27	14.4	80.0	2173	7	US-11-128-061-3457 Sequence 3457, A
28	14.4	80.0	2173	7	US-10-750-185-48999 Sequence 48999, A
29	14.4	80.0	2173	6	US-10-750-623-48999 Sequence 48999, A
30	14.4	80.0	16964	6	US-10-995-561-13424 Sequence 13424, A
31	14.4	80.0	51749	6	US-10-995-561-13245 Sequence 13245, A
32	14.4	80.0	98716	6	US-10-995-561-13331 Sequence 1331, A
33	14.4	80.0	142303	7	US-11-121-086-42 Sequence 42, A
34	14.4	80.0	171486	7	US-11-121-086-105 Sequence 105, A
35	14.4	80.0	179777	7	US-11-121-086-106 Sequence 106, A
36	14.4	80.0	198161	6	US-10-775-169-52 Sequence 52, A
37	14.4	80.0	268685	6	US-10-933-025-22 Sequence 22, A
38	14	77.8	19	8	US-11-101-244-552646 Sequence 552646, A
39	14	77.8	25	9	US-11-083-784-552646 Sequence 552646, A
40	14	77.8	25	7	US-11-121-849-289285 Sequence 289285, A
41	14	77.8	201	6	US-10-995-561-12647 Sequence 12647, A
42	14	77.8	201	6	US-10-995-561-37164 Sequence 37164, A
43	14	77.8	201	6	US-10-995-561-63880 Sequence 63880, A
44	14	77.8	201	6	US-10-995-561-64241 Sequence 64241, A
45	14	77.8	1460	6	US-10-750-185-32137 Sequence 32137, A
46	14	77.8	1460	6	US-10-750-623-32137 Sequence 32137, A
47	14	77.8	1671	7	US-11-037-243-47 Sequence 47, A
48	14	77.8	1907	6	US-10-995-561-497 Sequence 497, A
49	14	77.8	18394	6	US-10-995-561-13367 Sequence 13367, A
50	14	77.8	57073	6	US-10-995-561-13275 Sequence 13275, A
51	14	77.8	70513	6	US-10-995-561-13368 Sequence 13368, A
52	13.8	76.7	18	6	US-10-310-914A-301026 Sequence 301026, A
53	13.8	76.7	25	7	US-11-121-849-4911 Sequence 4911, A
54	13.8	76.7	25	7	US-11-121-849-513870 Sequence 513870, A
55	13.8	76.7	26	6	US-10-310-914A-166285 Sequence 166285, A
56	13.8	76.7	432	7	US-11-000-688-39 Sequence 39, A
57	13.8	76.7	583	6	US-10-453-372-893 Sequence 893, A
58	13.8	76.7	655	6	US-10-453-372-891 Sequence 891, A
59	13.8	76.7	684	6	US-10-948-429A-5 Sequence 5, A
60	13.8	76.7	695	6	US-10-453-372-889 Sequence 889, A
61	13.8	76.7	814	6	US-10-750-185-38726 Sequence 38726, A
62	13.8	76.7	814	6	US-10-750-623-38726 Sequence 38726, A
63	13.8	76.7	1229	6	US-10-750-185-62830 Sequence 62830, A
64	13.8	76.7	1229	6	US-10-750-623-62830 Sequence 62830, A
65	13.8	76.7	1277	7	US-11-113-424-5 Sequence 5, A
66	13.8	76.7	1322	7	US-11-113-424-7 Sequence 7, A
67	13.8	76.7	1400	7	US-11-128-061-4405 Sequence 4405, A
68	13.8	76.7	1455	7	US-11-128-061-763 Sequence 763, A
69	13.8	76.7	1501	6	US-10-750-185-64019 Sequence 64019, A
70	13.8	76.7	1501	6	US-10-750-623-64019 Sequence 64019, A
71	13.8	76.7	1589	6	US-10-510-388-57 Sequence 57, A
72	13.8	76.7	2754	6	US-10-947-249-161 Sequence 161, A
73	13.8	76.7	3237	6	US-10-420-192-5 Sequence 5, A
74	13.8	76.7	3255	7	US-11-136-527-3345 Sequence 3345, A
75	13.8	76.7	4527	7	US-11-136-527-3076 Sequence 3076, A
76	13.8	76.7	4753	6	US-10-750-185-33545 Sequence 33545, A
77	13.8	76.7	4753	6	US-10-750-623-33545 Sequence 33545, A
78	13.8	76.7	5286	6	US-10-955-054A-61 Sequence 61, A
79	13.8	76.7	5588	7	US-11-136-527-2103 Sequence 2103, A
80	13.8	76.7	8911	7	US-11-136-527-616 Sequence 616, A
81	13.8	76.7	12884	6	US-10-995-561-13247 Sequence 13247, A
82	13.8	76.7	19864	6	US-10-995-561-13218 Sequence 13218, A
83	13.8	76.7	23058	6	US-10-995-561-13377 Sequence 13377, A
84	13.8	76.7	23459	6	US-10-962-756A-1 Sequence 1, A
85	13.8	76.7	150468	7	US-11-112-908-56 Sequence 56, A
86	13.8	76.7	167116	7	US-11-121-086-44 Sequence 44, A
87	13.8	76.7	188682	7	US-11-112-908-23 Sequence 23, A
88	13.8	76.7	193789	7	US-11-112-908-55 Sequence 55, A
89	13.4	74.4	19	8	US-11-101-244-1530046 Sequence 1530046, A
90	13.4	74.4	19	9	US-11-083-784-1530046 Sequence 1530046, A
91	13.4	74.4	20	6	US-10-310-914A-118141 Sequence 118141, A
92	13.4	74.4	20	6	US-10-310-914A-1350864 Sequence 1350864, A
93	13.4	74.4	20	6	US-10-453-372-15588 Sequence 15588, A
94	13.4	74.4	25	7	US-11-121-849-274749 Sequence 274749, A
95	13.4	74.4	25	7	US-11-121-849-563078 Sequence 563078, A
96	13.4	74.4	28	6	US-10-310-914A-887645 Sequence 887645, A

97	13.4	74.4	171	6	US-10-467-657-1451	Sequence 1451, Ap	170	13.2	73.3	20	6	US-10-310-914A-97908	Sequence 97908, A
c 98	13.4	74.4	201	6	US-10-995-561-25045	Sequence 25045, A	171	13.2	73.3	22	6	US-10-310-914A-97910	Sequence 97910, A
99	13.4	74.4	201	6	US-10-995-561-62998	Sequence 62998, A	c 172	13.2	73.3	22	6	US-10-310-914A-247426	Sequence 247426
100	13.4	74.4	201	7	US-11-124-368A-5038	Sequence 5038, Ap	c 173	13.2	73.3	22	6	US-10-310-914A-1011877	Sequence 1011877
101	13.4	74.4	201	7	US-11-124-368A-12329	Sequence 12329, A	c 174	13.2	73.3	23	6	US-10-310-914A-790917	Sequence 790917
102	13.4	74.4	201	7	US-11-124-368A-18438	Sequence 18438, A	c 175	13.2	73.3	23	6	US-10-310-914A-873619	Sequence 873619
c 103	13.4	74.4	492	6	US-10-467-657-1449	Sequence 1449, Ap	c 176	13.2	73.3	24	6	US-10-310-914A-948929	Sequence 948929
104	13.4	74.4	600	6	US-10-750-185-19817	Sequence 19817, A	c 177	13.2	73.3	25	6	US-10-310-914A-121491	Sequence 121491
105	13.4	74.4	600	6	US-10-750-623-19817	Sequence 19817, A	c 178	13.2	73.3	25	6	US-10-310-914A-247427	Sequence 247427
106	13.4	74.4	740	6	US-10-750-185-28002	Sequence 28002, A	c 179	13.2	73.3	25	6	US-10-310-914A-624773	Sequence 624773
107	13.4	74.4	740	6	US-10-750-623-28002	Sequence 28002, A	c 180	13.2	73.3	25	6	US-10-310-914A-667367	Sequence 667367
108	13.4	74.4	935	6	US-10-750-185-57698	Sequence 57698, A	c 181	13.2	73.3	26	6	US-10-310-914A-247409	Sequence 247409
109	13.4	74.4	935	6	US-10-750-623-57698	Sequence 57698, A	c 182	13.2	73.3	28	6	US-10-310-914A-948988	Sequence 948988
110	13.4	74.4	990	6	US-10-750-185-31932	Sequence 31932, A	c 183	13.2	73.3	28	6	US-10-310-914A-1011824	Sequence 1011824
111	13.4	74.4	990	6	US-10-750-623-31932	Sequence 31932, A	c 184	13.2	73.3	67	6	US-10-310-914A-10430	Sequence 10430, A
112	13.4	74.4	992	6	US-10-750-185-55529	Sequence 55529, A	c 185	13.2	73.3	94	6	US-10-310-914A-10014	Sequence 10014, A
113	13.4	74.4	992	6	US-10-750-623-55529	Sequence 55529, A	c 186	13.2	73.3	201	6	US-10-995-561-56811	Sequence 56811, A
114	13.4	74.4	1293	6	US-10-517-939-79	Sequence 79, Appl	c 187	13.2	73.3	201	7	US-11-124-368A-10070	Sequence 10070, A
115	13.4	74.4	1416	6	US-10-995-561-512	Sequence 512, App	c 188	13.2	73.3	492	6	US-10-802-796-587	Sequence 587, App
116	13.4	74.4	1450	6	US-10-750-185-32371	Sequence 32371, A	c 189	13.2	73.3	519	7	US-11-136-527-413	Sequence 413, App
117	13.4	74.4	1450	6	US-10-750-623-32371	Sequence 32371, A	c 190	13.2	73.3	519	7	US-11-136-527-4509	Sequence 4509, Ap
118	13.4	74.4	1507	6	US-10-995-561-511	Sequence 511, App	c 191	13.2	73.3	582	7	US-11-064-774A-116	Sequence 116, App
119	13.4	74.4	1542	6	US-10-750-185-48265	Sequence 48265, A	c 192	13.2	73.3	582	7	US-11-052-554A-460	Sequence 460, App
120	13.4	74.4	1542	6	US-10-750-623-48265	Sequence 48265, A	c 193	13.2	73.3	587	6	US-10-750-185-56431	Sequence 56431, A
121	13.4	74.4	1554	6	US-10-750-185-32951	Sequence 32951, A	c 194	13.2	73.3	587	6	US-10-750-623-56431	Sequence 56431, A
122	13.4	74.4	1554	6	US-10-750-623-32951	Sequence 32951, A	c 195	13.2	73.3	664	6	US-10-750-185-62527	Sequence 62527, A
c 123	13.4	74.4	1591	6	US-10-750-185-43062	Sequence 43062, A	c 196	13.2	73.3	664	6	US-10-750-623-62527	Sequence 62527, A
124	13.4	74.4	1591	6	US-10-750-623-43062	Sequence 43062, A	c 197	13.2	73.3	681	6	US-10-467-657-5033	Sequence 5033, Ap
125	13.4	74.4	1661	6	US-10-453-372-1163	Sequence 1163, Ap	c 198	13.2	73.3	774	6	US-10-750-185-36514	Sequence 36514, A
126	13.4	74.4	1790	6	US-10-453-372-1161	Sequence 1161, Ap	c 199	13.2	73.3	774	6	US-10-750-623-36514	Sequence 36514, A
127	13.4	74.4	1790	6	US-10-453-372-1171	Sequence 1171, Ap	c 200	13.2	73.3	800	6	US-10-750-185-28758	Sequence 28758, A
128	13.4	74.4	1814	6	US-10-453-372-1159	Sequence 1159, Ap	c 201	13.2	73.3	800	6	US-10-750-623-28758	Sequence 28758, A
129	13.4	74.4	1814	6	US-10-453-372-1165	Sequence 1165, Ap	c 202	13.2	73.3	875	6	US-10-750-185-25975	Sequence 25975, A
130	13.4	74.4	1886	6	US-10-750-185-24514	Sequence 24514, A	c 203	13.2	73.3	875	6	US-10-750-623-25975	Sequence 25975, A
131	13.4	74.4	1886	6	US-10-750-623-24514	Sequence 24514, A	c 204	13.2	73.3	966	6	US-10-750-185-62450	Sequence 62450, A
132	13.4	74.4	2018	6	US-10-453-372-1155	Sequence 1155, Ap	c 205	13.2	73.3	966	6	US-10-750-623-62450	Sequence 62450, A
c 133	13.4	74.4	2337	6	US-10-821-234-424	Sequence 424, App	c 206	13.2	73.3	982	6	US-10-750-185-59822	Sequence 59822, A
134	13.4	74.4	2432	6	US-10-750-185-32418	Sequence 32418, A	c 207	13.2	73.3	982	6	US-10-750-623-59822	Sequence 59822, A
135	13.4	74.4	2432	6	US-10-750-623-32418	Sequence 32418, A	c 208	13.2	73.3	1097	6	US-10-750-185-39369	Sequence 39369, A
136	13.4	74.4	2819	6	US-10-453-372-1157	Sequence 1157, Ap	c 209	13.2	73.3	1097	6	US-10-750-623-39369	Sequence 39369, A
137	13.4	74.4	2920	6	US-10-750-185-49135	Sequence 49135, A	c 210	13.2	73.3	1143	6	US-10-750-185-50422	Sequence 50422, A
138	13.4	74.4	2920	6	US-10-750-623-49135	Sequence 49135, A	c 211	13.2	73.3	1143	6	US-10-750-623-50422	Sequence 50422, A
139	13.4	74.4	3005	6	US-10-750-185-26664	Sequence 26664, A	c 212	13.2	73.3	1241	6	US-10-750-185-31777	Sequence 31777, A
140	13.4	74.4	3005	6	US-10-750-623-26664	Sequence 26664, A	c 213	13.2	73.3	1241	6	US-10-750-623-31777	Sequence 31777, A
141	13.4	74.4	3656	6	US-10-947-249-198	Sequence 198, App	c 214	13.2	73.3	1352	6	US-10-750-185-46548	Sequence 46548, A
142	13.4	74.4	3986	6	US-10-750-185-48137	Sequence 48137, A	c 215	13.2	73.3	1352	6	US-10-750-623-46548	Sequence 46548, A
143	13.4	74.4	3986	6	US-10-750-623-48137	Sequence 48137, A	c 216	13.2	73.3	1371	7	US-11-128-061-7078	Sequence 7078, Ap
144	13.4	74.4	4686	6	US-10-750-185-37519	Sequence 37519, A	c 217	13.2	73.3	1384	6	US-10-750-623-30640	Sequence 30640, A
145	13.4	74.4	4686	6	US-10-750-623-37519	Sequence 37519, A	c 218	13.2	73.3	1384	6	US-10-750-185-30640	Sequence 30640, A
146	13.4	74.4	4742	7	US-11-136-527-3256	Sequence 3256, Ap	c 219	13.2	73.3	1400	7	US-11-136-527-6609	Sequence 6609, Ap
c 147	13.4	74.4	4895	6	US-10-993-514-1	Sequence 1, Appl	c 220	13.2	73.3	1442	6	US-10-750-185-25029	Sequence 25029, A
148	13.4	74.4	5841	7	US-11-136-527-676	Sequence 676, App	c 221	13.2	73.3	1442	6	US-10-750-623-25029	Sequence 25029, A
149	13.4	74.4	6436	7	US-11-136-527-2015	Sequence 2015, Ap	c 222	13.2	73.3	1469	6	US-10-750-185-24711	Sequence 24711, A
150	13.4	74.4	14271	6	US-10-995-561-13370	Sequence 13370, A	c 223	13.2	73.3	1469	6	US-10-750-623-24711	Sequence 24711, A
151	13.4	74.4	14603	6	US-10-995-561-13361	Sequence 13361, A	c 224	13.2	73.3	1470	6	US-10-750-185-44852	Sequence 44852, A
152	13.4	74.4	14769	6	US-10-995-561-13507	Sequence 13507, A	c 225	13.2	73.3	1470	6	US-10-750-623-44852	Sequence 44852, A
153	13.4	74.4	23704	7	US-11-124-368A-2905	Sequence 2905, Ap	c 226	13.2	73.3	1502	6	US-10-750-185-31524	Sequence 31524, A
154	13.4	74.4	40000	6	US-10-995-561-13510	Sequence 13510, A	c 227	13.2	73.3	1502	6	US-10-750-623-31524	Sequence 31524, A
c 155	13.4	74.4	68123	6	US-10-995-561-13348	Sequence 13348, A	c 228	13.2	73.3	1571	6	US-10-750-185-31755	Sequence 31755, A
156	13.4	74.4	100000	7	US-11-124-368A-2883	Sequence 2883, Ap	c 229	13.2	73.3	1571	6	US-10-750-623-31755	Sequence 31755, A
157	13.4	74.4	120697	7	US-11-121-086-48	Sequence 48, Appl	c 230	13.2	73.3	1582	6	US-10-750-185-46135	Sequence 46135, A
158	13.4	74.4	162289	7	US-11-121-086-20	Sequence 20, Appl	c 231	13.2	73.3	1582	6	US-10-750-623-46135	Sequence 46135, A
c 159	13.4	74.4	162289	7	US-11-121-086-20	Sequence 20, Appl	c 232	13.2	73.3	1606	6	US-10-750-185-43749	Sequence 43749, A
160	13.4	74.4	169495	7	US-11-121-086-61	Sequence 61, Appl	c 233	13.2	73.3	1606	6	US-10-750-623-43749	Sequence 43749, A
161	13.4	74.4	171162	7	US-11-112-098-38	Sequence 38, Appl	c 234	13.2	73.3	1640	6	US-10-750-185-26909	Sequence 26909, A
162	13.4	74.4	175416	7	US-11-121-086-43	Sequence 43, Appl	c 235	13.2	73.3	1640	6	US-10-750-623-26909	Sequence 26909, A
163	13.4	74.4	190276	7	US-10-661-966-1	Sequence 1, Appl	c 236	13.2	73.3	1689	6	US-10-821-234-223	Sequence 223, App
164	13.4	74.4	191091	7	US-11-121-086-60	Sequence 60, Appl	c 237	13.2	73.3	1701	6	US-10-750-185-47524	Sequence 47524, A
c 165	13.4	74.4	199130	6	US-10-995-561-13233	Sequence 13233, A	c 238	13.2	73.3	1701	6	US-10-750-623-47524	Sequence 47524, A
166	13.4	74.4	201990	6	US-10-995-561-13303	Sequence 13303, A	c 239	13.2	73.3	1724	7	US-11-136-527-2513	Sequence 2513, Ap
167	13.4	74.4	222094	6	US-10-995-561-13244	Sequence 13244, A	c 240	13.2	73.3	1928	6	US-10-750-185-43392	Sequence 43392, A
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c 169	13.2	73.3	19	6	US-10-310-914A-1011876	Sequence 1011876,	c 242	13.2	73.3	1956	6	US-10-750-185-59481	Sequence 59481, A



C 243	13.2	73.3	1956	6	US-10-750-623-59481	Sequence 59481, A	316	13	72.2	201	6	US-10-995-561-39180	Sequence 39180, A
C 244	13.2	73.3	2072	6	US-10-750-185-45862	Sequence 45862, A	317	13	72.2	201	6	US-10-995-561-39183	Sequence 39183, A
C 245	13.2	73.3	2072	6	US-10-750-623-45862	Sequence 45862, A	318	13	72.2	201	6	US-10-995-561-51275	Sequence 51275, A
C 246	13.2	73.3	2113	6	US-10-750-185-52932	Sequence 52932, A	319	13	72.2	201	6	US-10-995-561-51365	Sequence 51365, A
C 247	13.2	73.3	2113	6	US-10-750-623-52932	Sequence 52932, A	320	13	72.2	201	6	US-10-995-561-55005	Sequence 55005, A
C 248	13.2	73.3	2188	6	US-10-750-185-41974	Sequence 41974, A	321	13	72.2	201	7	US-11-124-368A-12328	Sequence 12328, A
C 249	13.2	73.3	2188	6	US-10-750-623-41974	Sequence 41974, A	322	13	72.2	485	7	US-11-102-240-43	Sequence 43, Appl
C 250	13.2	73.3	2254	6	US-10-750-185-28452	Sequence 28452, A	323	13	72.2	1195	6	US-10-750-185-42736	Sequence 42736, A
C 251	13.2	73.3	2254	6	US-10-750-623-28452	Sequence 28452, A	324	13	72.2	1195	6	US-10-750-623-42736	Sequence 42736, A
C 252	13.2	73.3	2331	7	US-11-136-527-3048	Sequence 3048, Ap	325	13	72.2	1420	6	US-10-510-386-221	Sequence 221, App
C 253	13.2	73.3	2331	7	US-11-037-243-8	Sequence 8, Appl	326	13	72.2	1444	6	US-10-750-185-43380	Sequence 43380, A
C 254	13.2	73.3	2392	7	US-11-136-527-1926	Sequence 1926, Ap	327	13	72.2	1444	6	US-10-750-623-43380	Sequence 43380, A
C 255	13.2	73.3	2652	6	US-10-750-185-45939	Sequence 45939, A	328	13	72.2	1811	6	US-10-750-185-54744	Sequence 54744, A
C 256	13.2	73.3	2652	6	US-10-750-623-45939	Sequence 45939, A	329	13	72.2	1811	6	US-10-750-623-54744	Sequence 54744, A
C 257	13.2	73.3	2750	6	US-10-131-826A-85	Sequence 85, Appl	330	13	72.2	2252	6	US-10-750-185-58156	Sequence 58156, A
C 258	13.2	73.3	2770	6	US-10-750-185-51285	Sequence 51285, A	331	13	72.2	2252	6	US-10-750-623-58156	Sequence 58156, A
C 259	13.2	73.3	2770	6	US-10-750-623-51285	Sequence 51285, A	332	13	72.2	2329	6	US-10-750-185-51607	Sequence 51607, A
C 260	13.2	73.3	2807	6	US-10-750-185-64270	Sequence 64270, A	333	13	72.2	2329	6	US-10-750-623-51607	Sequence 51607, A
C 261	13.2	73.3	2807	6	US-10-750-623-64270	Sequence 64270, A	334	13	72.2	4313	6	US-10-131-826A-393	Sequence 393, App
C 262	13.2	73.3	2876	7	US-11-136-527-3512	Sequence 3512, Ap	335	13	72.2	5731	7	US-11-136-527-2736	Sequence 2736, Ap
C 263	13.2	73.3	2876	7	US-10-750-185-55828	Sequence 55828, A	336	13	72.2	17249	7	US-11-136-527-1941	Sequence 1941, Ap
C 264	13.2	73.3	2995	6	US-10-750-623-26936	Sequence 26936, A	337	13	72.2	25968	6	US-10-995-561-13248	Sequence 13248, A
C 265	13.2	73.3	2995	6	US-10-750-623-26936	Sequence 26936, A	338	13	72.2	28933	6	US-10-995-561-13285	Sequence 13285, A
C 266	13.2	73.3	3018	6	US-10-750-185-60261	Sequence 60261, A	339	13	72.2	28933	6	US-10-995-561-13307	Sequence 13307, A
C 267	13.2	73.3	3018	6	US-10-750-623-60261	Sequence 60261, A	340	13	72.2	35344	6	US-10-995-561-13324	Sequence 13324, A
C 267	13.2	73.3	3249	7	US-11-128-061-3436	Sequence 3436, Ap	341	13	72.2	59110	6	US-10-995-561-13307	Sequence 13307, A
C 268	13.2	73.3	3418	7	US-11-136-527-3778	Sequence 3778, Ap	342	13	72.2	212805	7	US-11-121-086-98	Sequence 98, Appl
C 269	13.2	73.3	3879	6	US-10-750-185-55828	Sequence 55828, A	343	13	72.2	212805	7	US-11-112-908-19	Sequence 19, App
C 270	13.2	73.3	3879	6	US-10-750-623-55828	Sequence 55828, A	344	12.8	71.1	611587	7	US-11-117-187-209	Sequence 209, App
C 271	13.2	73.3	3946	6	US-10-750-185-58542	Sequence 58542, A	345	12.8	71.1	19	6	US-10-310-914A-600077	Sequence 600077, A
C 272	13.2	73.3	3946	6	US-10-750-623-58542	Sequence 58542, A	346	12.8	71.1	19	6	US-10-310-914A-1363434	Sequence 1363434, A
C 273	13.2	73.3	4016	7	US-11-087-100-36	Sequence 36, Appl	347	12.8	71.1	19	8	US-11-101-244-120271	Sequence 120271, A
C 274	13.2	73.3	4244	7	US-11-087-084-36	Sequence 36, Appl	348	12.8	71.1	19	8	US-11-101-244-150733	Sequence 150733, A
C 275	13.2	73.3	4244	7	US-11-087-085-36	Sequence 36, Appl	349	12.8	71.1	19	8	US-11-101-244-150763	Sequence 150763, A
C 276	13.2	73.3	4244	7	US-11-136-527-4010	Sequence 4010, Ap	350	12.8	71.1	19	8	US-11-101-244-616181	Sequence 616181, A
C 277	13.2	73.3	4276	7	US-11-136-527-2981	Sequence 2981, Ap	351	12.8	71.1	19	8	US-11-101-244-1480980	Sequence 1480980, A
C 278	13.2	73.3	4457	6	US-10-453-372-1185	Sequence 1185, Ap	352	12.8	71.1	19	8	US-11-101-244-1481019	Sequence 1481019, A
C 279	13.2	73.3	4697	6	US-10-453-372-1179	Sequence 1179, Ap	353	12.8	71.1	19	9	US-11-083-784-120271	Sequence 120271, A
C 280	13.2	73.3	4760	6	US-10-621-234-49	Sequence 49, Appl	354	12.8	71.1	19	9	US-11-083-784-150733	Sequence 150733, A
C 281	13.2	73.3	5468	6	US-10-453-372-1189	Sequence 1189, Ap	355	12.8	71.1	19	9	US-11-083-784-150763	Sequence 150763, A
C 282	13.2	73.3	5698	6	US-10-453-372-1189	Sequence 1189, Ap	356	12.8	71.1	19	9	US-11-083-784-616181	Sequence 616181, A
C 283	13.2	73.3	5956	7	US-11-136-527-2230	Sequence 2230, Ap	357	12.8	71.1	19	9	US-11-083-784-616275	Sequence 616275, A
C 284	13.2	73.3	6224	6	US-10-453-372-1173	Sequence 1173, Ap	358	12.8	71.1	19	9	US-11-083-784-1480980	Sequence 1480980, A
C 285	13.2	73.3	6494	6	US-10-453-372-1187	Sequence 1187, Ap	359	12.8	71.1	19	9	US-11-083-784-1480980	Sequence 1480980, A
C 286	13.2	73.3	6990	7	US-11-000-688-609	Sequence 609, App	360	12.8	71.1	20	6	US-10-310-914A-175940	Sequence 175940, A
C 287	13.2	73.3	6990	7	US-11-121-086-32	Sequence 32, Appl	361	12.8	71.1	21	6	US-10-310-914A-121527	Sequence 121527, A
C 288	13.2	73.3	10140	7	US-11-136-527-3169	Sequence 3169, Ap	362	12.8	71.1	21	6	US-10-310-914A-206638	Sequence 206638, A
C 289	13.2	73.3	23046	7	US-11-124-368A-29219	Sequence 2925, Ap	363	12.8	71.1	21	6	US-10-310-914A-206639	Sequence 206639, A
C 290	13.2	73.3	100000	6	US-10-995-561-13330	Sequence 13330, A	364	12.8	71.1	21	6	US-10-310-914A-386761	Sequence 386761, A
C 291	13.2	73.3	110608	6	US-10-775-169-193	Sequence 193, App	365	12.8	71.1	21	6	US-10-310-914A-166287	Sequence 166287, A
C 292	13.2	73.3	150481	7	US-11-112-908-37	Sequence 37, Appl	366	12.8	71.1	22	6	US-10-310-914A-259639	Sequence 259639, A
C 293	13.2	73.3	160170	7	US-11-121-086-32	Sequence 32, Appl	367	12.8	71.1	22	6	US-10-310-914A-443638	Sequence 443638, A
C 294	13.2	73.3	162013	7	US-11-150-888-30	Sequence 30, Appl	368	12.8	71.1	22	6	US-10-310-914A-1128898	Sequence 1128898, A
C 295	13.2	73.3	162013	7	US-11-121-086-71	Sequence 71, Appl	369	12.8	71.1	23	6	US-10-310-914A-741289	Sequence 741289, A
C 296	13.2	73.3	169725	7	US-11-121-086-63	Sequence 63, Appl	370	12.8	71.1	24	6	US-10-310-914A-1128797	Sequence 1128797, A
C 297	13.2	73.3	169725	7	US-11-121-086-63	Sequence 63, Appl	371	12.8	71.1	25	7	US-11-121-849-69769	Sequence 69769, A
C 298	13.2	73.3	173602	7	US-11-121-086-25	Sequence 25, Appl	372	12.8	71.1	25	7	US-11-121-849-99014	Sequence 99014, A
C 299	13.2	73.3	187745	7	US-11-121-086-83	Sequence 83, Appl	373	12.8	71.1	25	7	US-11-121-849-160511	Sequence 160511, A
C 300	13.2	73.3	191091	7	US-11-121-086-60	Sequence 60, Appl	374	12.8	71.1	25	7	US-11-121-849-162657	Sequence 162657, A
C 301	13.2	73.3	387780	6	US-10-995-561-13259	Sequence 13259, A	375	12.8	71.1	25	7	US-11-121-849-199774	Sequence 199774, A
C 302	13	72.2	19	8	US-11-101-244-862266	Sequence 862266, A	376	12.8	71.1	25	7	US-11-121-849-135640	Sequence 135640, A
C 303	13	72.2	19	9	US-11-083-784-862266	Sequence 862266, A	377	12.8	71.1	25	7	US-11-136-527-353571	Sequence 353571, A
C 304	13	72.2	20	6	US-10-310-914A-92819	Sequence 92819, A	378	12.8	71.1	26	6	US-10-310-914A-259637	Sequence 259637, A
C 305	13	72.2	20	6	US-10-310-914A-92819	Sequence 1052295, A	379	12.8	71.1	201	6	US-10-995-561-25487	Sequence 25487, A
C 306	13	72.2	21	6	US-10-310-914A-191886	Sequence 191886, A	380	12.8	71.1	201	6	US-10-995-561-25488	Sequence 25488, A
C 307	13	72.2	22	6	US-10-310-914A-361149	Sequence 361149, A	381	12.8	71.1	201	6	US-10-995-561-25547	Sequence 25547, A
C 308	13	72.2	23	6	US-10-310-914A-361150	Sequence 210038, A	382	12.8	71.1	201	6	US-10-995-561-26168	Sequence 26168, A
C 309	13	72.2	25	7	US-11-121-849-210038	Sequence 210038, A	383	12.8	71.1	201	6	US-10-995-561-26169	Sequence 26169, A
C 310	13	72.2	26	6	US-10-310-914A-92869	Sequence 92869, A	384	12.8	71.1	201	6	US-10-995-561-30116	Sequence 30116, A
C 311	13	72.2	201	6	US-10-995-561-29380	Sequence 29380, A	385	12.8	71.1	201	6	US-10-995-561-37190	Sequence 37190, A
C 312	13	72.2	201	6	US-10-995-561-29432	Sequence 29432, A	386	12.8	71.1	201	6	US-10-995-561-37190	Sequence 37190, A
C 313	13	72.2	201	6	US-10-995-561-29435	Sequence 29435, A	387	12.8	71.1	201	6	US-10-995-561-38643	Sequence 38643, A
C 314	13	72.2	201	6	US-10-995-561-32396	Sequence 32396, A	388	12.8	71.1	201	6	US-10-995-561-38643	Sequence 38643, A
C 315	13	72.2	201	6	US-10-995-561-39126	Sequence 39126, A							

C 389	12.8	71.1	201	6	US-10-995-561-38851	Sequence 38851, A	Sequence 38851, A	12.8	71.1	1308	6	US-10-750-185-60174	Sequence 60174, A
C 390	12.8	71.1	201	6	US-10-995-561-38930	Sequence 38930, A	Sequence 38930, A	12.8	71.1	1308	6	US-10-750-623-60174	Sequence 60174, A
C 391	12.8	71.1	201	6	US-10-995-561-55244	Sequence 55244, A	Sequence 55244, A	12.8	71.1	1314	6	US-10-775-169-39	Sequence 39, Appl
C 392	12.8	71.1	201	6	US-10-995-561-55245	Sequence 55245, A	Sequence 55245, A	12.8	71.1	1315	6	US-10-750-185-37925	Sequence 37925, A
C 393	12.8	71.1	201	6	US-10-995-561-63876	Sequence 63876, A	Sequence 63876, A	12.8	71.1	1315	6	US-10-750-623-37925	Sequence 37925, A
C 394	12.8	71.1	201	6	US-10-995-561-64060	Sequence 64060, A	Sequence 64060, A	12.8	71.1	1330	6	US-10-750-185-48993	Sequence 48993, A
C 395	12.8	71.1	201	6	US-10-995-561-66379	Sequence 66379, A	Sequence 66379, A	12.8	71.1	1330	6	US-10-750-623-48993	Sequence 48993, A
C 396	12.8	71.1	201	6	US-10-995-561-66514	Sequence 66514, A	Sequence 66514, A	12.8	71.1	1345	6	US-10-750-185-28126	Sequence 28126, A
C 397	12.8	71.1	201	6	US-10-995-561-77662	Sequence 77662, A	Sequence 77662, A	12.8	71.1	1345	6	US-10-750-623-28126	Sequence 28126, A
C 398	12.8	71.1	201	6	US-10-995-561-78657	Sequence 78657, A	Sequence 78657, A	12.8	71.1	1367	7	US-11-128-061-4276	Sequence 4276, Ap
C 399	12.8	71.1	201	6	US-10-995-561-79485	Sequence 79485, A	Sequence 79485, A	12.8	71.1	1379	6	US-10-750-185-27578	Sequence 27578, A
C 400	12.8	71.1	201	6	US-10-995-561-81215	Sequence 81215, A	Sequence 81215, A	12.8	71.1	1379	6	US-10-750-623-27578	Sequence 27578, A
C 401	12.8	71.1	201	6	US-10-995-561-81293	Sequence 81293, A	Sequence 81293, A	12.8	71.1	1400	7	US-11-136-527-4475	Sequence 4475, Ap
C 402	12.8	71.1	201	6	US-10-995-561-81570	Sequence 81570, A	Sequence 81570, A	12.8	71.1	1400	7	US-11-136-527-6433	Sequence 6433, Ap
C 403	12.8	71.1	201	6	US-10-995-561-81629	Sequence 81629, A	Sequence 81629, A	12.8	71.1	1400	7	US-11-136-527-7482	Sequence 7482, Ap
C 404	12.8	71.1	201	6	US-10-995-561-81631	Sequence 81631, A	Sequence 81631, A	12.8	71.1	1421	6	US-10-750-185-42819	Sequence 42819, A
C 405	12.8	71.1	201	7	US-11-124-368A-2034	Sequence 2034, Ap	Sequence 2034, Ap	12.8	71.1	1419	6	US-10-750-185-46559	Sequence 46559, A
C 406	12.8	71.1	201	7	US-11-124-368A-2058	Sequence 2058, A	Sequence 2058, A	12.8	71.1	1419	6	US-10-750-623-42819	Sequence 42819, A
C 407	12.8	71.1	201	7	US-11-124-368A-2090	Sequence 2090, Ap	Sequence 2090, Ap	12.8	71.1	1419	6	US-10-750-623-46559	Sequence 46559, A
C 408	12.8	71.1	201	7	US-11-124-368A-4027	Sequence 4027, Ap	Sequence 4027, Ap	12.8	71.1	1421	6	US-10-750-185-54337	Sequence 54337, A
C 409	12.8	71.1	201	7	US-11-124-368A-4598	Sequence 4598, Ap	Sequence 4598, Ap	12.8	71.1	1421	6	US-10-750-623-54337	Sequence 54337, A
C 410	12.8	71.1	201	7	US-11-124-368A-8327	Sequence 8327, Ap	Sequence 8327, Ap	12.8	71.1	1421	6	US-10-750-623-54337	Sequence 54337, A
C 411	12.8	71.1	201	7	US-11-124-368A-8329	Sequence 8329, Ap	Sequence 8329, Ap	12.8	71.1	1421	6	US-10-750-623-54337	Sequence 54337, A
C 412	12.8	71.1	201	7	US-11-124-368A-8360	Sequence 8360, Ap	Sequence 8360, Ap	12.8	71.1	1440	6	US-10-750-623-49478	Sequence 49478, A
C 413	12.8	71.1	201	7	US-11-124-368A-8360	Sequence 8360, Ap	Sequence 8360, Ap	12.8	71.1	1440	6	US-10-750-623-49478	Sequence 49478, A
C 414	12.8	71.1	201	7	US-11-124-368A-15114	Sequence 15114, A	Sequence 15114, A	12.8	71.1	1440	6	US-10-750-623-49478	Sequence 49478, A
C 415	12.8	71.1	201	7	US-11-124-368A-20084	Sequence 20084, A	Sequence 20084, A	12.8	71.1	1443	6	US-10-521-162-39	Sequence 39, Appl
C 416	12.8	71.1	201	7	US-11-108-172-421	Sequence 421, App	Sequence 421, App	12.8	71.1	1443	6	US-10-521-162-41	Sequence 41, Appl
C 417	12.8	71.1	442	7	US-11-128-061-1489	Sequence 1489, Ap	Sequence 1489, Ap	12.8	71.1	1455	6	US-10-678-790-41	Sequence 5940, A
C 418	12.8	71.1	442	7	US-11-128-061-5131	Sequence 5131, Ap	Sequence 5131, Ap	12.8	71.1	1475	6	US-10-750-185-54940	Sequence 54940, A
C 419	12.8	71.1	471	6	US-10-750-185-47088	Sequence 47088, A	Sequence 47088, A	12.8	71.1	1475	6	US-10-750-623-54940	Sequence 54940, A
C 420	12.8	71.1	536	7	US-11-128-061-2352	Sequence 2352, Ap	Sequence 2352, Ap	12.8	71.1	1484	6	US-10-750-185-37812	Sequence 37812, A
C 421	12.8	71.1	536	7	US-11-128-061-5994	Sequence 5994, Ap	Sequence 5994, Ap	12.8	71.1	1484	6	US-10-750-623-37812	Sequence 37812, A
C 422	12.8	71.1	600	6	US-10-750-185-4422	Sequence 4422, Ap	Sequence 4422, Ap	12.8	71.1	1489	6	US-10-750-185-56259	Sequence 56259, A
C 423	12.8	71.1	600	6	US-10-750-185-2518	Sequence 2518, Ap	Sequence 2518, Ap	12.8	71.1	1489	6	US-10-750-623-56259	Sequence 56259, A
C 424	12.8	71.1	600	6	US-10-750-623-2422	Sequence 2422, Ap	Sequence 2422, Ap	12.8	71.1	1523	6	US-10-750-185-41532	Sequence 41532, A
C 425	12.8	71.1	600	6	US-10-750-623-2518	Sequence 2518, Ap	Sequence 2518, Ap	12.8	71.1	1523	6	US-10-750-623-41532	Sequence 41532, A
C 426	12.8	71.1	600	7	US-11-136-527-7822	Sequence 7822, Ap	Sequence 7822, Ap	12.8	71.1	1563	6	US-10-467-657-1343	Sequence 1343, Ap
C 427	12.8	71.1	600	7	US-11-128-061-4762	Sequence 4762, Ap	Sequence 4762, Ap	12.8	71.1	1575	6	US-10-821-234-201	Sequence 201, Appl
C 428	12.8	71.1	645	6	US-10-467-657-5155	Sequence 5155, Ap	Sequence 5155, Ap	12.8	71.1	1591	6	US-10-750-185-28953	Sequence 28953, A
C 429	12.8	71.1	681	6	US-10-750-185-50900	Sequence 50900, A	Sequence 50900, A	12.8	71.1	1591	6	US-10-750-623-28953	Sequence 28953, A
C 430	12.8	71.1	681	6	US-10-750-623-50900	Sequence 50900, A	Sequence 50900, A	12.8	71.1	1591	6	US-10-750-185-51592	Sequence 51592, A
C 431	12.8	71.1	700	6	US-10-750-185-27260	Sequence 27260, A	Sequence 27260, A	12.8	71.1	1611	6	US-10-750-623-51592	Sequence 51592, A
C 432	12.8	71.1	700	6	US-10-750-623-27260	Sequence 27260, A	Sequence 27260, A	12.8	71.1	1611	6	US-10-750-185-34254	Sequence 34254, A
C 433	12.8	71.1	749	6	US-10-750-185-47373	Sequence 47373, A	Sequence 47373, A	12.8	71.1	1612	6	US-10-750-623-34254	Sequence 34254, A
C 434	12.8	71.1	749	6	US-10-750-623-47373	Sequence 47373, A	Sequence 47373, A	12.8	71.1	1623	6	US-10-821-234-604	Sequence 604, App
C 435	12.8	71.1	750	7	US-11-128-061-656	Sequence 656, App	Sequence 656, App	12.8	71.1	1630	9	US-11-033-764-32	Sequence 32, Appl
C 436	12.8	71.1	772	6	US-10-750-185-35207	Sequence 35207, A	Sequence 35207, A	12.8	71.1	1658	6	US-10-750-185-35602	Sequence 35602, A
C 437	12.8	71.1	772	6	US-10-750-623-35207	Sequence 35207, A	Sequence 35207, A	12.8	71.1	1658	6	US-10-750-623-35602	Sequence 35602, A
C 438	12.8	71.1	789	6	US-10-750-185-39613	Sequence 39613, A	Sequence 39613, A	12.8	71.1	1680	6	US-10-750-185-39050	Sequence 39050, A
C 439	12.8	71.1	789	6	US-10-750-623-39613	Sequence 39613, A	Sequence 39613, A	12.8	71.1	1680	6	US-10-750-623-39050	Sequence 39050, A
C 440	12.8	71.1	813	6	US-10-750-185-34719	Sequence 34719, A	Sequence 34719, A	12.8	71.1	1702	6	US-10-750-185-37380	Sequence 37380, A
C 441	12.8	71.1	813	6	US-10-750-623-34719	Sequence 34719, A	Sequence 34719, A	12.8	71.1	1702	6	US-10-750-623-37380	Sequence 37380, A
C 442	12.8	71.1	1002	6	US-10-467-657-2203	Sequence 2203, Ap	Sequence 2203, Ap	12.8	71.1	1712	6	US-10-750-185-27354	Sequence 27354, A
C 443	12.8	71.1	1002	6	US-10-467-657-6503	Sequence 6503, Ap	Sequence 6503, Ap	12.8	71.1	1712	6	US-10-750-623-27354	Sequence 27354, A
C 444	12.8	71.1	1116	6	US-10-750-185-47917	Sequence 47917, A	Sequence 47917, A	12.8	71.1	1727	6	US-10-750-185-34823	Sequence 34823, A
C 445	12.8	71.1	1116	6	US-10-750-623-47917	Sequence 47917, A	Sequence 47917, A	12.8	71.1	1727	6	US-10-750-623-34823	Sequence 34823, A
C 446	12.8	71.1	1133	6	US-10-750-185-35550	Sequence 35550, A	Sequence 35550, A	12.8	71.1	1738	6	US-10-750-185-40789	Sequence 40789, A
C 447	12.8	71.1	1133	6	US-10-750-623-35550	Sequence 35550, A	Sequence 35550, A	12.8	71.1	1738	6	US-10-750-623-40789	Sequence 40789, A
C 448	12.8	71.1	1152	6	US-10-750-185-30716	Sequence 30716, A	Sequence 30716, A	12.8	71.1	1758	6	US-10-750-185-41807	Sequence 41807, A
C 449	12.8	71.1	1152	6	US-10-750-623-30716	Sequence 30716, A	Sequence 30716, A	12.8	71.1	1758	6	US-10-750-623-41807	Sequence 41807, A
C 450	12.8	71.1	1158	6	US-10-750-185-26066	Sequence 26066, A	Sequence 26066, A	12.8	71.1	1849	6	US-10-750-185-51953	Sequence 51953, A
C 451	12.8	71.1	1158	6	US-10-750-623-26066	Sequence 26066, A	Sequence 26066, A	12.8	71.1	1849	6	US-10-750-623-51953	Sequence 51953, A
C 452	12.8	71.1	1176	6	US-10-750-185-60468	Sequence 60468, A	Sequence 60468, A	12.8	71.1	1875	6	US-10-131-826A-359	Sequence 359, App
C 453	12.8	71.1	1176	6	US-10-750-623-60468	Sequence 60468, A	Sequence 60468, A	12.8	71.1	1936	6	US-10-750-185-59257	Sequence 59257, A
C 454	12.8	71.1	1180	6	US-10-750-185-51905	Sequence 51905, A	Sequence 51905, A	12.8	71.1	1936	6	US-10-750-623-59257	Sequence 59257, A
C 455	12.8	71.1	1180	6	US-10-750-623-51905	Sequence 51905, A	Sequence 51905, A	12.8	71.1	2016	6	US-10-467-657-5125	Sequence 5125, Ap
C 456	12.8	71.1	1181	6	US-10-750-185-39029	Sequence 39029, A	Sequence 39029, A	12.8	71.1	2032	6	US-10-909-125-1741	Sequence 1741, Ap
C 457	12.8	71.1	1181	6	US-10-750-623-39029	Sequence 39029, A	Sequence 39029, A	12.8	71.1	2075	6	US-10-750-185-55446	Sequence 55446, A
C 458	12.8	71.1	1305	6	US-10-750-185-40154	Sequence 40154, A	Sequence 40154, A	12.8	71.1	2075	6	US-10-750-623-55446	Sequence 55446, A
C 459	12.8	71.1	1305	6	US-10-750-623-40154	Sequence 40154, A	Sequence 40154, A	12.8	71.1	2108	6	US-10-750-185-40894	Sequence 40894, A
C 460	12.8	71.1	1307	6	US-10-750-185-36324	Sequence 36324, A	Sequence 36324, A	12.8	71.1	2108	6	US-10-750-623-40894	Sequence 40894, A
C 461	12.8	71.1	1307	6	US-10-750-623-36324	Sequence 36324, A	Sequence 36324, A	12.8	71.1	2175	6	US-10-750-185-57980	Sequence 57980, A

535	12.8	71.1	2175	6	US-10-750-623-57980	Sequence 57980, A	608	12.8	71.1	93112	6	US-10-995-561-13234	Sequence 13234, A
536	12.8	71.1	2180	6	US-10-750-185-36383	Sequence 36383, A	609	12.8	71.1	96128	6	US-10-995-561-13197	Sequence 13197, A
537	12.8	71.1	2180	6	US-10-750-623-36383	Sequence 36383, A	610	12.8	71.1	110847	7	US-11-121-086-11	Sequence 11, Appl
538	12.8	71.1	2238	6	US-10-750-185-33577	Sequence 33577, A	611	12.8	71.1	119160	7	US-11-121-086-12	Sequence 12, Appl
539	12.8	71.1	2238	6	US-10-750-623-33577	Sequence 33577, A	612	12.8	71.1	147700	6	US-10-857-780-3	Sequence 3, Appl
540	12.8	71.1	2244	7	US-11-136-527-2627	Sequence 2627, Ap	613	12.8	71.1	147700	6	US-10-857-780-3	Sequence 3, Appl
c 541	12.8	71.1	2326	7	US-11-136-527-3748	Sequence 3748, Ap	614	12.8	71.1	150314	7	US-11-112-908-24	Sequence 24, Appl
c 542	12.8	71.1	2412	7	US-11-136-527-3749	Sequence 3749, Ap	615	12.8	71.1	150468	7	US-11-112-908-56	Sequence 56, Appl
543	12.8	71.1	2458	6	US-10-750-185-45021	Sequence 45021, A	616	12.8	71.1	151169	7	US-11-121-086-38	Sequence 38, Appl
544	12.8	71.1	2458	6	US-10-750-623-45021	Sequence 45021, A	617	12.8	71.1	152335	7	US-11-121-086-73	Sequence 73, Appl
545	12.8	71.1	2471	7	US-11-136-527-2231	Sequence 2231, Ap	618	12.8	71.1	154548	7	US-11-121-086-33	Sequence 33, Appl
c 546	12.8	71.1	2486	7	US-11-112-908-5	Sequence 5, Appl	619	12.8	71.1	156250	7	US-11-121-086-86	Sequence 86, Appl
c 547	12.8	71.1	2674	6	US-10-750-185-55799	Sequence 55799, A	620	12.8	71.1	156260	7	US-11-121-086-87	Sequence 87, Appl
c 548	12.8	71.1	2674	6	US-10-750-623-55799	Sequence 55799, A	621	12.8	71.1	159497	7	US-11-112-908-61	Sequence 61, Appl
549	12.8	71.1	2697	7	US-11-128-061-6334	Sequence 634, App	622	12.8	71.1	160170	7	US-11-121-086-32	Sequence 32, Appl
c 550	12.8	71.1	2960	6	US-10-750-185-44604	Sequence 44604, A	623	12.8	71.1	160236	7	US-11-121-086-29	Sequence 29, Appl
c 551	12.8	71.1	2960	6	US-10-750-623-44604	Sequence 44604, A	624	12.8	71.1	160237	7	US-11-121-086-59	Sequence 59, Appl
c 552	12.8	71.1	3092	6	US-10-995-561-266	Sequence 266, App	625	12.8	71.1	162537	7	US-11-121-086-4	Sequence 4, Appl
c 553	12.8	71.1	3133	9	US-11-033-764-93	Sequence 93, Appl	626	12.8	71.1	166639	7	US-11-121-086-52	Sequence 52, Appl
c 554	12.8	71.1	3189	6	US-10-857-780-12	Sequence 12, Appl	627	12.8	71.1	166639	7	US-11-121-086-3	Sequence 3, Appl
555	12.8	71.1	3231	6	US-10-750-185-39676	Sequence 39676, A	628	12.8	71.1	171936	6	US-10-933-025-24	Sequence 24, Appl
556	12.8	71.1	3231	6	US-10-750-623-39676	Sequence 39676, A	629	12.8	71.1	172147	7	US-11-112-908-22	Sequence 22, Appl
557	12.8	71.1	3257	7	US-11-136-527-317	Sequence 317, App	630	12.8	71.1	179892	7	US-11-112-908-39	Sequence 39, Appl
558	12.8	71.1	3424	6	US-10-750-185-40627	Sequence 40627, A	631	12.8	71.1	180574	7	US-11-121-086-70	Sequence 70, Appl
559	12.8	71.1	3424	6	US-10-750-623-40627	Sequence 40627, A	632	12.8	71.1	187786	6	US-10-995-561-13474	Sequence 13474, A
560	12.8	71.1	3625	6	US-10-750-185-33010	Sequence 33010, A	633	12.8	71.1	187986	6	US-10-995-561-13252	Sequence 13252, A
561	12.8	71.1	3625	6	US-10-750-623-33010	Sequence 33010, A	634	12.8	71.1	193789	7	US-11-112-908-55	Sequence 55, Appl
c 562	12.8	71.1	3801	7	US-11-136-527-2337	Sequence 2337, Ap	635	12.8	71.1	195235	6	US-10-995-561-13495	Sequence 13495, A
c 563	12.8	71.1	4070	7	US-11-000-688-134	Sequence 134, App	636	12.8	71.1	195235	6	US-10-995-561-13495	Sequence 13495, A
564	12.8	71.1	4249	6	US-10-750-185-56506	Sequence 56506, A	637	12.8	71.1	197781	7	US-11-112-908-34	Sequence 34, Appl
565	12.8	71.1	4249	6	US-10-750-623-56506	Sequence 56506, A	638	12.8	71.1	199130	6	US-10-995-561-13233	Sequence 13233, A
566	12.8	71.1	4396	7	US-11-000-688-41	Sequence 41, Appl	639	12.8	71.1	216623	7	US-11-112-908-33	Sequence 33, Appl
567	12.8	71.1	4432	6	US-10-995-561-265	Sequence 265, App	640	12.8	71.1	220895	6	US-10-775-169-88	Sequence 88, Appl
568	12.8	71.1	4509	6	US-10-678-790-45	Sequence 45, Appl	641	12.8	71.1	220895	6	US-10-775-169-88	Sequence 88, Appl
c 569	12.8	71.1	4772	6	US-10-857-780-13	Sequence 13, Appl	642	12.8	71.1	246960	7	US-11-121-086-8	Sequence 8, Appl
c 570	12.8	71.1	4854	7	US-11-136-527-3726	Sequence 3726, Ap	643	12.8	71.1	285300	6	US-10-857-780-6	Sequence 6, Appl
571	12.8	71.1	5102	7	US-11-128-061-561	Sequence 561, App	644	12.8	71.1	305312	6	US-10-995-561-13236	Sequence 13236, A
572	12.8	71.1	5306	6	US-10-750-185-34792	Sequence 34792, A	645	12.8	71.1	1080000	6	US-10-928-446A-1	Sequence 1, Appl
573	12.8	71.1	5306	6	US-10-750-623-34792	Sequence 34792, A	646	12.8	71.1	1080000	6	US-10-928-446A-181	Sequence 181, App
c 574	12.8	71.1	5482	7	US-11-136-527-4048	Sequence 4048, Ap	647	12.8	71.1	1080000	6	US-10-928-446A-183	Sequence 183, App
c 575	12.8	71.1	6127	8	US-11-112-944-20	Sequence 20, Appl	648	12.8	71.1	1080000	6	US-10-928-446A-185	Sequence 185, App
c 576	12.8	71.1	6914	7	US-11-000-688-1053	Sequence 1053, Ap	649	12.8	71.1	1080000	6	US-10-928-446A-187	Sequence 187, App
c 577	12.8	71.1	7326	7	US-11-128-061-575	Sequence 575, App	650	12.8	71.1	1080000	6	US-10-928-446A-189	Sequence 189, App
c 578	12.8	71.1	7396	7	US-11-136-527-2724	Sequence 2724, Ap	651	12.8	71.1	1080000	6	US-10-928-446A-191	Sequence 191, App
c 579	12.8	71.1	7989	6	US-10-509-921-8	Sequence 2, Appl	652	12.8	71.1	1080000	6	US-10-928-446A-193	Sequence 193, App
c 580	12.8	71.1	7989	6	US-10-509-921-8	Sequence 8, Appl	653	12.8	71.1	1080000	6	US-10-928-446A-195	Sequence 195, App
c 581	12.8	71.1	7989	6	US-10-509-921-14	Sequence 14, Appl	654	12.8	71.1	1080000	6	US-10-928-446A-197	Sequence 197, App
c 582	12.8	71.1	7989	7	US-11-119-330-1	Sequence 1, Appl	655	12.8	71.1	1080000	6	US-10-928-446A-199	Sequence 199, App
c 583	12.8	71.1	7992	6	US-10-509-921-3	Sequence 3, Appl	656	12.8	71.1	1080000	6	US-10-928-446A-201	Sequence 201, App
c 584	12.8	71.1	7992	7	US-11-111-686-1	Sequence 1, Appl	657	12.6	70.0	861	6	US-10-689-742-196	Sequence 196, App
c 585	12.8	71.1	7992	7	US-11-111-686-2	Sequence 2, Appl	658	12.4	68.9	18	6	US-10-310-914A-42636	Sequence 42636, A
c 586	12.8	71.1	7992	7	US-11-111-686-4	Sequence 4, Appl	659	12.4	68.9	18	6	US-10-310-914A-468788	Sequence 468788, A
c 587	12.8	71.1	7992	7	US-11-111-686-5	Sequence 5, Appl	660	12.4	68.9	19	6	US-10-310-914A-887593	Sequence 887593, A
c 588	12.8	71.1	7992	7	US-11-111-686-6	Sequence 6, Appl	661	12.4	68.9	19	6	US-10-310-914A-1031709	Sequence 1031709, A
c 589	12.8	71.1	7995	7	US-11-111-686-3	Sequence 3, Appl	662	12.4	68.9	19	6	US-10-310-914A-1172669	Sequence 1172669, A
c 590	12.8	71.1	8268	7	US-11-136-527-3386	Sequence 3386, Ap	663	12.4	68.9	19	8	US-11-101-244-57608	Sequence 57608, A
c 591	12.8	71.1	12591	6	US-10-995-561-13415	Sequence 13415, A	664	12.4	68.9	19	8	US-11-101-244-616217	Sequence 616217, A
c 592	12.8	71.1	14023	6	US-10-995-561-13221	Sequence 13221, A	665	12.4	68.9	19	8	US-11-101-244-616310	Sequence 616310, A
c 593	12.8	71.1	14154	6	US-10-995-561-13282	Sequence 13282, A	666	12.4	68.9	19	8	US-11-101-244-640657	Sequence 640657, A
594	12.8	71.1	17112	7	US-11-176-253-2	Sequence 2, A	667	12.4	68.9	19	8	US-11-101-244-640746	Sequence 640746, A
c 595	12.8	71.1	24064	6	US-10-995-561-13478	Sequence 13478, A	668	12.4	68.9	19	8	US-11-101-244-640831	Sequence 640831, A
c 596	12.8	71.1	28190	6	US-10-995-561-13333	Sequence 13333, A	669	12.4	68.9	19	8	US-11-101-244-640916	Sequence 640916, A
597	12.8	71.1	31936	7	US-11-124-368A-2891	Sequence 2891, Ap	670	12.4	68.9	19	8	US-11-101-244-641004	Sequence 641004, A
c 598	12.8	71.1	32070	6	US-10-995-561-13317	Sequence 13317, A	671	12.4	68.9	19	8	US-11-101-244-676814	Sequence 676814, A
c 599	12.8	71.1	43975	6	US-10-995-561-13279	Sequence 13279, A	672	12.4	68.9	19	8	US-11-101-244-925728	Sequence 925728, A
600	12.8	71.1	46089	6	US-10-995-561-13325	Sequence 13325, A	673	12.4	68.9	19	8	US-11-101-244-925739	Sequence 925739, A
601	12.8	71.1	46215	6	US-10-995-561-13483	Sequence 13483, A	674	12.4	68.9	19	8	US-11-101-244-1152316	Sequence 1152316, A
602	12.8	71.1	47460	6	US-11-124-368A-2877	Sequence 2877, Ap	675	12.4	68.9	19	8	US-11-101-244-1160981	Sequence 1160981, A
603	12.8	71.1	57073	6	US-10-995-561-13275	Sequence 13275, A	676	12.4	68.9	19	8	US-11-101-244-1198691	Sequence 1198691, A
c 604	12.8	71.1	77246	6	US-11-124-368A-2907	Sequence 2907, Ap	677	12.4	68.9	19	8	US-11-101-244-1480994	Sequence 1480994, A
c 605	12.8	71.1	84409	6	US-10-995-561-13494	Sequence 13494, A	678	12.4	68.9	19	8	US-11-101-244-1481005	Sequence 1481005, A
c 606	12.8	71.1	88873	6	US-10-995-561-13383	Sequence 13383, A	679	12.4	68.9	19	8	US-11-101-244-1481052	Sequence 1481052, A
607	12.8	71.1	91561	7	US-11-124-368A-2896	Sequence 2896, Ap	680	12.4	68.9	19	8	US-11-101-244-1481053	Sequence 1481053, A

c 681	12.4	68.9	19	8	US-11-101-244-1481054	Sequence 1481054,	754	12.4	68.9	201	6	US-10-995-561-16723	Sequence 16723, A
c 682	12.4	68.9	19	9	US-11-083-784-57608	Sequence 57608, A	755	12.4	68.9	201	6	US-10-995-561-31151	Sequence 31151, A
c 683	12.4	68.9	19	9	US-11-083-784-616217	Sequence 616217,	756	12.4	68.9	201	6	US-10-995-561-32281	Sequence 32281, A
c 684	12.4	68.9	19	9	US-11-083-784-616310	Sequence 616310,	757	12.4	68.9	201	6	US-10-995-561-43801	Sequence 43801, A
c 685	12.4	68.9	19	9	US-11-083-784-640657	Sequence 640657,	758	12.4	68.9	201	6	US-10-995-561-47082	Sequence 47082, A
c 686	12.4	68.9	19	9	US-11-083-784-640746	Sequence 640746,	759	12.4	68.9	201	6	US-10-995-561-48204	Sequence 48204, A
c 687	12.4	68.9	19	9	US-11-083-784-640831	Sequence 640831,	760	12.4	68.9	201	6	US-10-995-561-48500	Sequence 48500, A
c 688	12.4	68.9	19	9	US-11-083-784-640916	Sequence 640916,	761	12.4	68.9	201	6	US-10-995-561-48501	Sequence 48501, A
c 689	12.4	68.9	19	9	US-11-083-784-641004	Sequence 641004,	762	12.4	68.9	201	6	US-10-995-561-48502	Sequence 48502, A
c 690	12.4	68.9	19	9	US-11-083-784-676814	Sequence 676814,	763	12.4	68.9	201	6	US-10-995-561-48503	Sequence 48503, A
c 691	12.4	68.9	19	9	US-11-083-784-925728	Sequence 925728,	764	12.4	68.9	201	6	US-10-995-561-54791	Sequence 54791, A
c 692	12.4	68.9	19	9	US-11-083-784-925739	Sequence 925739,	765	12.4	68.9	201	6	US-10-995-561-57752	Sequence 57752, A
c 693	12.4	68.9	19	9	US-11-083-784-1152316	Sequence 1152316,	766	12.4	68.9	201	6	US-10-995-561-58899	Sequence 58899, A
c 694	12.4	68.9	19	9	US-11-083-784-1160981	Sequence 1160981,	767	12.4	68.9	201	6	US-10-995-561-58972	Sequence 58972, A
c 695	12.4	68.9	19	9	US-11-083-784-1198691	Sequence 1198691,	768	12.4	68.9	201	6	US-10-995-561-72601	Sequence 72601, A
c 696	12.4	68.9	19	9	US-11-083-784-1480994	Sequence 1480994,	769	12.4	68.9	201	6	US-10-995-561-74711	Sequence 74711, A
c 697	12.4	68.9	19	9	US-11-083-784-1481005	Sequence 1481005,	770	12.4	68.9	201	6	US-10-995-561-75870	Sequence 75870, A
c 698	12.4	68.9	19	9	US-11-083-784-1481005	Sequence 1481005,	771	12.4	68.9	201	6	US-10-995-561-75871	Sequence 75871, A
c 699	12.4	68.9	19	9	US-11-083-784-1481052	Sequence 1481052,	772	12.4	68.9	201	6	US-10-995-561-75872	Sequence 75872, A
c 700	12.4	68.9	19	9	US-11-083-784-1481053	Sequence 1481053,	773	12.4	68.9	201	6	US-10-995-561-75873	Sequence 75873, A
c 701	12.4	68.9	19	9	US-11-083-784-1481054	Sequence 1481054,	774	12.4	68.9	201	6	US-10-995-561-76025	Sequence 76025, A
c 702	12.4	68.9	20	6	US-10-310-914A-468818	Sequence 468818,	775	12.4	68.9	201	6	US-10-995-561-76249	Sequence 76249, A
c 703	12.4	68.9	20	6	US-10-310-914A-597112	Sequence 597112,	776	12.4	68.9	201	6	US-10-995-561-81157	Sequence 81157, A
c 704	12.4	68.9	20	6	US-10-310-914A-735700	Sequence 735700,	777	12.4	68.9	201	6	US-10-995-561-81492	Sequence 81492, A
c 705	12.4	68.9	20	6	US-10-310-914A-1172646	Sequence 1172646,	778	12.4	68.9	201	6	US-10-995-561-81582	Sequence 81582, A
c 706	12.4	68.9	21	6	US-10-310-914A-81713	Sequence 81713, A	779	12.4	68.9	201	6	US-10-995-561-83014	Sequence 83014, A
c 707	12.4	68.9	21	6	US-10-310-914A-315571	Sequence 315571,	780	12.4	68.9	201	6	US-10-995-561-83031	Sequence 83031, A
c 708	12.4	68.9	21	6	US-10-310-914A-345144	Sequence 345144,	781	12.4	68.9	201	6	US-10-995-561-83033	Sequence 83033, A
c 709	12.4	68.9	21	6	US-10-310-914A-785655	Sequence 785655,	782	12.4	68.9	201	6	US-10-995-561-83821	Sequence 83821, A
c 710	12.4	68.9	22	6	US-10-310-914A-1197746	Sequence 1197746,	783	12.4	68.9	201	6	US-10-995-561-84382	Sequence 84382, A
c 711	12.4	68.9	22	6	US-10-310-914A-700530	Sequence 700530,	784	12.4	68.9	201	6	US-10-995-561-84391	Sequence 84391, A
c 712	12.4	68.9	23	6	US-10-310-914A-345138	Sequence 345138,	785	12.4	68.9	201	6	US-10-995-561-84392	Sequence 84392, A
c 713	12.4	68.9	23	6	US-10-310-914A-345145	Sequence 345145,	786	12.4	68.9	201	6	US-10-995-561-84393	Sequence 84393, A
c 714	12.4	68.9	23	6	US-10-310-914A-594358	Sequence 594358,	787	12.4	68.9	201	6	US-10-995-561-84394	Sequence 84394, A
c 715	12.4	68.9	23	6	US-10-310-914A-623287	Sequence 623287,	788	12.4	68.9	201	7	US-11-124-368A-3637	Sequence 3637, Ap
c 716	12.4	68.9	23	6	US-10-310-914A-1067840	Sequence 1067840,	789	12.4	68.9	201	7	US-11-124-368A-4493	Sequence 4493, Ap
c 717	12.4	68.9	24	6	US-10-310-914A-1067881	Sequence 1067881,	790	12.4	68.9	201	7	US-11-124-368A-13182	Sequence 13182, A
c 718	12.4	68.9	24	6	US-10-310-914A-298452	Sequence 298452,	791	12.4	68.9	201	7	US-11-124-368A-20689	Sequence 20689, A
c 719	12.4	68.9	24	6	US-10-310-914A-345152	Sequence 345152,	792	12.4	68.9	227	7	US-11-148-108-13	Sequence 13, Appl
c 720	12.4	68.9	24	6	US-10-310-914A-594359	Sequence 594359,	793	12.4	68.9	561	7	US-11-136-527-1073	Sequence 1073, Ap
c 721	12.4	68.9	24	6	US-10-310-914A-650949	Sequence 650949,	794	12.4	68.9	561	7	US-11-136-527-5169	Sequence 5169, Ap
c 722	12.4	68.9	24	6	US-10-310-914A-1067877	Sequence 1067877,	795	12.4	68.9	580	7	US-11-128-061-3557	Sequence 3557, Ap
c 723	12.4	68.9	25	7	US-11-121-849-180814	Sequence 180814,	796	12.4	68.9	580	7	US-11-128-061-7199	Sequence 7199, Ap
c 724	12.4	68.9	25	7	US-11-121-849-229373	Sequence 229373,	797	12.4	68.9	580	7	US-10-750-185-1947	Sequence 1947, Ap
c 725	12.4	68.9	25	7	US-11-121-849-229374	Sequence 229374,	798	12.4	68.9	598	6	US-10-750-623-1947	Sequence 1947, Ap
c 726	12.4	68.9	25	7	US-11-121-849-249066	Sequence 249066,	799	12.4	68.9	598	6	US-10-750-623-1912	Sequence 1912, Ap
c 727	12.4	68.9	25	7	US-11-121-849-564974	Sequence 564974,	800	12.4	68.9	600	6	US-10-750-185-2192	Sequence 2192, A
c 728	12.4	68.9	25	7	US-11-121-849-564975	Sequence 564975,	801	12.4	68.9	600	6	US-10-750-623-1912	Sequence 1912, Ap
c 729	12.4	68.9	25	7	US-11-121-849-564976	Sequence 564976,	802	12.4	68.9	600	6	US-10-750-623-2192	Sequence 2192, A
c 730	12.4	68.9	25	7	US-11-121-849-565548	Sequence 565548,	803	12.4	68.9	600	7	US-11-136-527-4948	Sequence 4948, Ap
c 731	12.4	68.9	25	7	US-11-121-849-565549	Sequence 565549,	804	12.4	68.9	617	7	US-11-136-527-852	Sequence 852, App
c 732	12.4	68.9	25	7	US-11-121-849-565550	Sequence 565550,	805	12.4	68.9	625	6	US-10-750-185-36862	Sequence 36862, A
c 733	12.4	68.9	25	7	US-11-121-849-565551	Sequence 565551,	806	12.4	68.9	625	6	US-10-750-623-36862	Sequence 36862, A
c 734	12.4	68.9	25	7	US-11-121-849-565552	Sequence 565552,	807	12.4	68.9	673	6	US-10-750-185-57733	Sequence 57733, A
c 735	12.4	68.9	25	7	US-11-121-849-565553	Sequence 565553,	808	12.4	68.9	673	6	US-10-750-623-57733	Sequence 57733, A
c 736	12.4	68.9	25	7	US-11-121-849-565554	Sequence 565554,	809	12.4	68.9	767	6	US-10-750-185-58458	Sequence 58458, A
c 737	12.4	68.9	25	7	US-11-121-849-648964	Sequence 648964,	810	12.4	68.9	767	6	US-10-750-623-58458	Sequence 58458, A
c 738	12.4	68.9	25	7	US-11-136-527-233737	Sequence 233737,	811	12.4	68.9	768	6	US-10-750-185-53738	Sequence 53738, A
c 739	12.4	68.9	27	6	US-10-310-914A-386730	Sequence 386730,	812	12.4	68.9	768	6	US-10-750-623-53738	Sequence 53738, A
c 740	12.4	68.9	92	7	US-10-310-914A-1128758	Sequence 1128758,	813	12.4	68.9	783	6	US-10-750-185-64533	Sequence 64533, A
c 741	12.4	68.9	92	7	US-11-128-061-6812	Sequence 6812, Ap	814	12.4	68.9	783	6	US-10-750-623-64533	Sequence 64533, A
c 742	12.4	68.9	135	6	US-10-995-561-8988	Sequence 8988, Ap	815	12.4	68.9	821	6	US-10-750-185-25680	Sequence 25680, A
c 743	12.4	68.9	135	6	US-10-995-561-9008	Sequence 9008, Ap	816	12.4	68.9	821	6	US-10-750-623-25680	Sequence 25680, A
c 744	12.4	68.9	159	6	US-10-995-561-8986	Sequence 8986, Ap	817	12.4	68.9	826	6	US-10-750-185-60338	Sequence 60338, A
c 745	12.4	68.9	159	6	US-10-995-561-9006	Sequence 9006, Ap	818	12.4	68.9	826	6	US-10-750-623-60338	Sequence 60338, A
c 746	12.4	68.9	160	6	US-10-995-561-8985	Sequence 8985, Ap	819	12.4	68.9	837	6	US-10-750-185-51252	Sequence 51252, A
c 747	12.4	68.9	160	6	US-10-995-561-9005	Sequence 9005, Ap	820	12.4	68.9	837	6	US-10-750-623-51252	Sequence 51252, A
c 748	12.4	68.9	165	6	US-10-995-561-8983	Sequence 8983, Ap	821	12.4	68.9	846	6	US-10-750-185-48640	Sequence 48640, A
c 749	12.4	68.9	165	6	US-10-995-561-9003	Sequence 9003, Ap	822	12.4	68.9	846	6	US-10-750-623-48640	Sequence 48640, A
c 750	12.4	68.9	201	6	US-10-995-561-11286	Sequence 11286, A	823	12.4	68.9	860	6	US-10-750-185-28769	Sequence 28769, A
c 751	12.4	68.9	201	6	US-10-995-561-11290	Sequence 11290, A	824	12.4	68.9	860	6	US-10-750-623-28769	Sequence 28769, A
c 752	12.4	68.9	201	6	US-10-995-561-11294	Sequence 11294, A	825	12.4	68.9	889	6	US-10-750-185-31314	Sequence 31314, A
c 753	12.4	68.9	201	6	US-10-995-561-11298	Sequence 11298, A	826	12.4	68.9	889	6	US-10-750-623-31314	Sequence 31314, A

827	12.4	68.9	892	6	US-10-750-185-62811	Sequence 62811, A	900	12.4	68.9	1644	6	US-10-750-185-63957	Sequence 63957, A
828	12.4	68.9	892	6	US-10-750-623-62811	Sequence 62811, A	901	12.4	68.9	1644	6	US-10-750-623-63957	Sequence 63957, A
829	12.4	68.9	905	6	US-10-750-185-60537	Sequence 60537, A	902	12.4	68.9	1648	6	US-10-750-185-58002	Sequence 58002, A
830	12.4	68.9	905	6	US-10-750-623-60537	Sequence 60537, A	903	12.4	68.9	1648	6	US-10-750-623-58002	Sequence 58002, A
831	12.4	68.9	937	6	US-10-750-185-60776	Sequence 60776, A	904	12.4	68.9	1660	7	US-11-136-527-2749	Sequence 2749, Ap
832	12.4	68.9	937	6	US-10-750-623-60776	Sequence 60776, A	905	12.4	68.9	1678	6	US-10-750-185-43745	Sequence 43745, A
C 833	12.4	68.9	948	6	US-10-750-185-56254	Sequence 56254, A	906	12.4	68.9	1678	6	US-10-750-623-43745	Sequence 43745, A
C 834	12.4	68.9	948	6	US-10-750-623-56254	Sequence 56254, A	907	12.4	68.9	1683	7	US-11-148-108-19	Sequence 19, Appl
835	12.4	68.9	998	7	US-11-102-400-125	Sequence 125, App	908	12.4	68.9	1721	6	US-10-750-185-38308	Sequence 38308, A
C 836	12.4	68.9	1034	6	US-10-750-185-48767	Sequence 48767, A	909	12.4	68.9	1721	6	US-10-750-623-38308	Sequence 38308, A
C 837	12.4	68.9	1034	6	US-10-750-623-48767	Sequence 48767, A	910	12.4	68.9	1753	6	US-10-750-185-50420	Sequence 50420, A
C 838	12.4	68.9	1068	6	US-10-750-185-43744	Sequence 43744, A	911	12.4	68.9	1753	6	US-10-750-623-50420	Sequence 50420, A
839	12.4	68.9	1102	6	US-10-750-623-43744	Sequence 43744, A	912	12.4	68.9	1808	6	US-10-750-185-53123	Sequence 53123, A
C 840	12.4	68.9	1102	6	US-10-750-185-36660	Sequence 36660, A	913	12.4	68.9	1808	6	US-10-750-623-53123	Sequence 53123, A
C 841	12.4	68.9	1102	6	US-10-750-623-36660	Sequence 36660, A	914	12.4	68.9	1811	7	US-11-136-527-2529	Sequence 2529, Ap
842	12.4	68.9	1118	6	US-10-750-185-64354	Sequence 64354, A	915	12.4	68.9	1835	6	US-10-750-185-58591	Sequence 58591, A
843	12.4	68.9	1118	6	US-10-750-623-64354	Sequence 64354, A	916	12.4	68.9	1835	6	US-10-750-623-58591	Sequence 58591, A
C 844	12.4	68.9	1122	6	US-10-821-234-411	Sequence 411, App	917	12.4	68.9	1845	6	US-10-750-185-24665	Sequence 24665, A
845	12.4	68.9	1131	6	US-10-750-185-50057	Sequence 50057, A	918	12.4	68.9	1845	6	US-10-750-623-24665	Sequence 24665, A
846	12.4	68.9	1131	6	US-10-750-623-50057	Sequence 50057, A	919	12.4	68.9	1872	6	US-10-750-185-31426	Sequence 31426, A
847	12.4	68.9	1133	6	US-10-750-185-43053	Sequence 43053, A	920	12.4	68.9	1872	6	US-10-750-623-31426	Sequence 31426, A
848	12.4	68.9	1133	6	US-10-750-623-43053	Sequence 43053, A	921	12.4	68.9	1888	6	US-10-750-185-56009	Sequence 56009, A
C 849	12.4	68.9	1134	6	US-10-750-185-44090	Sequence 44090, A	922	12.4	68.9	1888	6	US-10-750-623-56009	Sequence 56009, A
C 850	12.4	68.9	1134	6	US-10-750-623-44090	Sequence 44090, A	923	12.4	68.9	1895	6	US-10-750-185-42451	Sequence 42451, A
C 851	12.4	68.9	1143	6	US-10-750-185-28789	Sequence 28789, A	924	12.4	68.9	1895	6	US-10-750-623-42451	Sequence 42451, A
C 852	12.4	68.9	1143	6	US-10-750-623-28789	Sequence 28789, A	925	12.4	68.9	1914	6	US-10-750-185-28439	Sequence 28439, A
853	12.4	68.9	1205	6	US-10-750-185-49396	Sequence 49396, A	926	12.4	68.9	1914	6	US-10-750-623-28439	Sequence 28439, A
854	12.4	68.9	1205	6	US-10-750-623-49396	Sequence 49396, A	927	12.4	68.9	1956	6	US-10-750-185-48990	Sequence 48990, A
C 855	12.4	68.9	1209	6	US-10-750-185-50446	Sequence 50446, A	928	12.4	68.9	1956	6	US-10-750-623-48990	Sequence 48990, A
C 856	12.4	68.9	1209	6	US-10-750-623-50446	Sequence 50446, A	929	12.4	68.9	1991	8	US-11-147-725-1	Sequence 1, Appli
C 857	12.4	68.9	1212	6	US-10-750-185-29015	Sequence 29015, A	930	12.4	68.9	1995	6	US-10-750-185-38357	Sequence 38357, A
C 858	12.4	68.9	1212	6	US-10-750-623-29015	Sequence 29015, A	931	12.4	68.9	1995	6	US-10-750-623-38357	Sequence 38357, A
C 859	12.4	68.9	1235	6	US-10-750-185-35150	Sequence 35150, A	932	12.4	68.9	2007	6	US-10-750-185-48147	Sequence 48147, A
C 860	12.4	68.9	1235	6	US-10-750-623-35150	Sequence 35150, A	933	12.4	68.9	2007	6	US-10-750-623-48147	Sequence 48147, A
861	12.4	68.9	1236	6	US-10-750-185-45099	Sequence 45099, A	934	12.4	68.9	2024	6	US-10-947-249-141	Sequence 141, App
862	12.4	68.9	1240	6	US-10-750-623-45099	Sequence 45099, A	935	12.4	68.9	2059	6	US-10-750-185-41198	Sequence 41198, A
863	12.4	68.9	1240	6	US-10-750-185-27382	Sequence 27382, A	936	12.4	68.9	2175	6	US-10-750-623-41198	Sequence 41198, A
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C 870	12.4	68.9	1268	6	US-10-750-623-56002	Sequence 56002, A	943	12.4	68.9	2534	7	US-10-750-185-27292	Sequence 27292, A
C 871	12.4	68.9	1296	6	US-10-750-185-55415	Sequence 55415, A	944	12.4	68.9	2548	6	US-10-750-623-27292	Sequence 27292, A
C 872	12.4	68.9	1296	6	US-10-750-623-55415	Sequence 55415, A	945	12.4	68.9	2619	6	US-10-750-185-42549	Sequence 42549, A
C 873	12.4	68.9	1296	6	US-10-750-185-56233	Sequence 56233, A	946	12.4	68.9	2619	6	US-10-750-623-42549	Sequence 42549, A
C 874	12.4	68.9	1296	6	US-10-750-623-55415	Sequence 55415, A	947	12.4	68.9	2745	6	US-10-517-544-76	Sequence 76, Appl
875	12.4	68.9	1353	6	US-10-750-185-25074	Sequence 25074, A	948	12.4	68.9	2813	7	US-11-148-108-18	Sequence 18, Appl
876	12.4	68.9	1353	6	US-10-750-623-25074	Sequence 25074, A	949	12.4	68.9	2859	6	US-10-995-561-314	Sequence 314, App
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C 878	12.4	68.9	1382	6	US-10-750-185-42747	Sequence 42747, A	951	12.4	68.9	2880	6	US-10-750-623-55877	Sequence 55877, A
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C 880	12.4	68.9	1398	6	US-10-750-185-57600	Sequence 57600, A	953	12.4	68.9	2941	6	US-11-000-688-6	Sequence 6, Appli
C 881	12.4	68.9	1398	6	US-10-750-623-57600	Sequence 57600, A	954	12.4	68.9	2983	7	US-11-136-527-4047	Sequence 4047, Ap
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883	12.4	68.9	1411	6	US-10-750-185-25622	Sequence 25622, A	956	12.4	68.9	3051	6	US-10-750-185-62899	Sequence 62899, A
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C 885	12.4	68.9	1481	6	US-10-995-561-434	Sequence 434, App	958	12.4	68.9	3079	6	US-10-623-155-116	Sequence 116, App
886	12.4	68.9	1485	6	US-10-750-185-27091	Sequence 27091, A	959	12.4	68.9	3163	6	US-10-750-185-32501	Sequence 32501, A
C 887	12.4	68.9	1485	6	US-10-750-623-27091	Sequence 27091, A	960	12.4	68.9	3163	6	US-10-750-623-32501	Sequence 32501, A
C 888	12.4	68.9	1488	7	US-11-219-995-3	Sequence 3, Appli	961	12.4	68.9	3274	7	US-11-136-527-2339	Sequence 2339, Ap
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C 891	12.4	68.9	1531	6	US-10-750-185-57262	Sequence 57262, A	964	12.4	68.9	3327	7	US-11-037-243-18	Sequence 18, Appl
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C 893	12.4	68.9	1534	6	US-10-750-185-38375	Sequence 38375, A	966	12.4	68.9	3527	6	US-10-750-623-49100	Sequence 49100, A
C 894	12.4	68.9	1534	6	US-10-750-623-38375	Sequence 38375, A	967	12.4	68.9	3618	7	US-11-136-527-294	Sequence 294, App
C 895	12.4	68.9	1575	6	US-10-995-561-433	Sequence 433, App	968	12.4	68.9	3762	6	US-10-750-185-48607	Sequence 48607, A
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C 898	12.4	68.9	1636	6	US-10-750-185-26884	Sequence 26884, A	971	12.4	68.9	3827	7	US-11-136-527-3202	Sequence 3202, Ap
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973 12.4 68.9 3895 7 US-11-136-527-1852 Sequence 1852, Ap
974 12.4 68.9 4035 7 US-11-136-527-3632 Sequence 3632, Ap
975 12.4 68.9 4119 6 US-10-947-249-48 Sequence 48, Appl
c 976 12.4 68.9 4928 6 US-10-750-185-31365 Sequence 31365, A
977 12.4 68.9 4928 6 US-10-750-623-31365 Sequence 31365, A
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c 979 12.4 68.9 5048 6 US-10-750-185-40762 Sequence 40762, A
980 12.4 68.9 5048 6 US-10-750-623-40762 Sequence 40762, A
981 12.4 68.9 5515 6 US-10-517-605-14 Sequence 14, Appl
982 12.4 68.9 5515 7 US-11-055-309A-2 Sequence 2, Appli
c 983 12.4 68.9 5571 7 US-11-128-061-708 Sequence 708, App
984 12.4 68.9 5673 7 US-11-128-061-436 Sequence 436, App
985 12.4 68.9 5784 7 US-11-136-527-2025 Sequence 2025, Ap
986 12.4 68.9 5982 7 US-11-034-771-1 Sequence 1, Appli
987 12.4 68.9 6878 7 US-11-136-527-1919 Sequence 1919, Ap
988 12.4 68.9 12724 7 US-11-124-368A-2932 Sequence 2932, Ap
989 12.4 68.9 14154 6 US-10-995-561-13282 Sequence 13282, A
990 12.4 68.9 15804 6 US-10-995-561-13294 Sequence 13294, A
991 12.4 68.9 16963 6 US-10-995-561-13467 Sequence 13467, A
992 12.4 68.9 17004 7 US-11-176-253-1 Sequence 1, Appli
993 12.4 68.9 20317 6 US-10-995-561-13460 Sequence 13460, A
c 994 12.4 68.9 21442 6 US-10-995-561-13469 Sequence 13469, A
995 12.4 68.9 23672 6 US-10-995-561-13267 Sequence 13267, A
996 12.4 68.9 24446 6 US-10-995-561-13436 Sequence 13436, A
997 12.4 68.9 28693 6 US-10-995-561-13341 Sequence 13341, A
998 12.4 68.9 29959 6 US-10-995-561-13475 Sequence 13475, A
999 12.4 68.9 33737 6 US-10-276-233A-7 Sequence 7, Appli
c1000 12.4 68.9 35770 6 US-10-995-561-13296 Sequence 13296, A
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ALIGNMENTS

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RESULT 1
US-10-750-185-48505
; Sequence 48505, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750.185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 48505
; TYPE: DNA
; LENGTH: 2883
; ORGANISM: Bovine 19866880623230
US-10-750-185-48505
Query Match 85.6%; Score 15.4; DB 6; Length 2883;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17
Db 494 GGGTCTGTATGGCTGCG 510

RESULT 2
US-10-750-623-48505
; Sequence 48505, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
```

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; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750.623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 48505
; LENGTH: 2883
; TYPE: DNA
; ORGANISM: Bovine 19866880623230
US-10-750-623-48505
Query Match 85.6%; Score 15.4; DB 6; Length 2883;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCG 17
Db 494 GGGTCTGTATGGCTGCG 510

RESULT 3
US-10-750-185-34411
; Sequence 34411, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750.185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 34411
; LENGTH: 1619
; TYPE: DNA
; ORGANISM: Bovine 19866880739118
US-10-750-185-34411
Query Match 83.3%; Score 15; DB 6; Length 1619;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGTCTGTCTGGCTGCG 16
Db 801 GGTCTGTCTGGCTGCG 815

RESULT 4
US-10-750-623-34411
; Sequence 34411, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
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; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34411
; TYPE: DNA
; LENGTH: 1619
; ORGANISM: Bovine 19866880739118
US-10-750-623-34411

Query Match      83.3%; Score 15; DB 6; Length 1619;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GGTCTGCTGGCTGC 16
Db      801 GGTCTGCTGGCTGC 815

RESULT 5
US-10-750-185-61405/c
; Sequence 61405, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61405
; TYPE: DNA
; LENGTH: 3137
; ORGANISM: Bovine 19866881240321
US-10-750-185-61405

Query Match      83.3%; Score 15; DB 6; Length 3137;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GGTCTGCTGGCTGC 16
Db      1847 GGTCTGCTGGCTGC 1833

RESULT 6
US-10-750-623-61405/c
; Sequence 61405, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
```

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; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61405
; TYPE: DNA
; LENGTH: 3137
; ORGANISM: Bovine 19866881240321
US-10-750-623-61405

Query Match      83.3%; Score 15; DB 6; Length 3137;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GGTCTGCTGGCTGC 16
Db      1847 GGTCTGCTGGCTGC 1833

RESULT 7
US-10-310-914A-1178608/c
; Sequence 1178608, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087,0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1178608
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1178608

Query Match      82.2%; Score 14.8; DB 6; Length 20;
Best Local Similarity 88.9%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GGTCTGCTGGCTGC 18
Db      18 GGGCCTTTCTGGCTGC 1

RESULT 8
US-10-310-914A-1178611/c
; Sequence 1178611, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087,0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1178611
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1178611
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Query Match      82.2%; Score 14.8; DB 6; Length 21;
Best Local Similarity 88.9%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
Db 21 GGGCCTTTCTGGCTGCGC 4

RESULT 9
US-10-310-914A-961492
; Sequence 961492, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 961492
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-961492

Query Match      82.2%; Score 14.8; DB 6; Length 23;
Best Local Similarity 61.1%; Pred. No. 3.9e+02;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
Db 4 GGGUCUGUGCGGCCUC 21

RESULT 10
US-10-310-914A-1178585/c
; Sequence 1178585, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1178585
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1178585

Query Match      82.2%; Score 14.8; DB 6; Length 23;
Best Local Similarity 88.9%; Pred. No. 3.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
Db 20 GGGCCTTTCTGGCTGCGC 3

RESULT 11
US-10-310-914A-1178603/c
; Sequence 1178603, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac

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; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1178603
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1178603

Query Match      82.2%; Score 14.8; DB 6; Length 24;
Best Local Similarity 88.9%; Pred. No. 3.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
Db 24 GGGCCTTTCTGGCTGCGC 7

RESULT 12
US-10-750-185-1996
; Sequence 1996, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1996
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Bovine MMBT18519
US-10-750-185-1996

Query Match      82.2%; Score 14.8; DB 6; Length 600;
Best Local Similarity 88.9%; Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGCGC 18
Db 240 GTGTCTGTCTGTCTGCGC 257

RESULT 13
US-10-750-623-1996
; Sequence 1996, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623

```



; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1996  
; LENGTH: 600  
; TYPE: DNA  
; ORGANISM: Bovine MMBT18519  
US-10-750-623-1996

Query Match 82.2%; Score 14.8; DB 6; Length 600;  
Best Local Similarity 88.9%; Pred. No. 3e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18  
Db 240 GTGTCTGTCTGGCTGGCG 257

RESULT 14

US-10-453-372-815  
; Sequence 815, Application US/10453372  
; Publication No. US2006000323A1  
; GENERAL INFORMATION:  
; APPLICANT: Alsbrook, et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-589 A  
; CURRENT APPLICATION NUMBER: US/10/453,372  
; CURRENT FILING DATE: 2003-06-03  
; PRIOR APPLICATION NUMBER: 09/789390  
; PRIOR FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: 60/185967  
; PRIOR FILING DATE: 2000-03-01  
; PRIOR APPLICATION NUMBER: 09/823187  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 60/195792  
; PRIOR FILING DATE: 2000-03-10  
; PRIOR APPLICATION NUMBER: 09/839446  
; PRIOR FILING DATE: 2001-03-19  
; PRIOR APPLICATION NUMBER: 60/199476  
; PRIOR FILING DATE: 2000-03-25  
; PRIOR APPLICATION NUMBER: 09/863776  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: 60/208263  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: 09/939398  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: 60/227800  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1609  
; SOFTWARE: Curaseq1 version 0.1  
; SEQ ID NO 815

; LENGTH: 780  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(780)  
US-10-453-372-815

Query Match 82.2%; Score 14.8; DB 6; Length 780;  
Best Local Similarity 88.9%; Pred. No. 3e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18  
Db 716 GGGCTGTCTGGCTGTGC 733

RESULT 15

US-10-453-372-813

; Sequence 813, Application US/10453372  
; Publication No. US2006000323A1  
; GENERAL INFORMATION:  
; APPLICANT: Alsbrook, et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-589 A  
; CURRENT APPLICATION NUMBER: US/10/453,372  
; CURRENT FILING DATE: 2003-06-03  
; PRIOR APPLICATION NUMBER: 09/789390  
; PRIOR FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: 60/185967  
; PRIOR FILING DATE: 2000-03-01  
; PRIOR APPLICATION NUMBER: 09/823187  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 60/195792  
; PRIOR FILING DATE: 2000-03-10  
; PRIOR APPLICATION NUMBER: 09/839446  
; PRIOR FILING DATE: 2001-03-19  
; PRIOR APPLICATION NUMBER: 60/199476  
; PRIOR FILING DATE: 2000-03-25  
; PRIOR APPLICATION NUMBER: 09/863776  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: 60/208263  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: 09/939398  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: 60/227800  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1609  
; SOFTWARE: Curaseq1 version 0.1  
; SEQ ID NO 813

; LENGTH: 840  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (2)..(835)  
US-10-453-372-813

Query Match 82.2%; Score 14.8; DB 6; Length 840;  
Best Local Similarity 88.9%; Pred. No. 3e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18  
Db 777 GGGCTGTCTGGCTGTGC 794

RESULT 16

US-10-750-185-43064  
; Sequence 43064, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 43064  
; LENGTH: 1567  
; TYPE: DNA  
; ORGANISM: Bovine 19866880732550

US-10-750-185-43064

Query Match 82.2%; Score 14.8; DB 6; Length 1567;  
Best Local Similarity 88.9%; Pred. No. 2.9e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18

Db 1091 GGGTGTGTCTGGCTGGCG 1108

RESULT 17

US-10-750-623-43064

; Sequence 43064, Application US/10750623

; Publication No. US20050287531A1

; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.

; APPLICANT: KERR, Richard

; APPLICANT: ROSENFELD, David

; APPLICANT: HOLM, Tom

; APPLICANT: BATES, Stephen

; APPLICANT: FANTIN, Dennis

; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS

; FILE REFERENCE: MM1100-1

; CURRENT APPLICATION NUMBER: US/10/750.623

; CURRENT FILING DATE: 2003-12-31

; PRIOR APPLICATION NUMBER: US 60/437,482

; PRIOR FILING DATE: 2002-12-31

; NUMBER OF SEQ ID NOS: 64922

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 43064

; LENGTH: 1567

; TYPE: DNA

; ORGANISM: Bovine 19866880732550

US-10-750-623-43064

Query Match 82.2%; Score 14.8; DB 6; Length 1567;  
Best Local Similarity 88.9%; Pred. No. 2.9e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18

Db 1091 GGGTGTGTCTGGCTGGCG 1108

RESULT 18

US-11-136-527-2881/c

; Sequence 2881, Application US/11136527

; Publication No. US20050287570A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes

; FILE REFERENCE: 031896-041000 (AM101086)

; CURRENT APPLICATION NUMBER: US/11/136.527

; CURRENT FILING DATE: 2005-05-25

; PRIOR APPLICATION NUMBER: US 60/574,294

; PRIOR FILING DATE: 2005-05-26

; NUMBER OF SEQ ID NOS: 362830

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 2881

; LENGTH: 1977

; TYPE: DNA

; ORGANISM: Rattus norvegicus

US-11-136-527-2881

Query Match 82.2%; Score 14.8; DB 7; Length 1977;  
Best Local Similarity 88.9%; Pred. No. 2.8e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18

Db 1091 GGGTGTGTCTGGCTGGCG 1108

Db 92 GGGTCTGGCTGGCTGGCG 75

RESULT 19

US-10-955-054A-180/c

; Sequence 180, Application US/10955054A

; Publication No. US20050266420A1

; GENERAL INFORMATION:

; APPLICANT: PUSZTAI, LAJOS

; APPLICANT: SYMMANS, W. FRASER

; APPLICANT: HESS, KENNETH R.

; APPLICANT: AYERS, MARK

; APPLICANT: STEC, JAMES

; TITLE OF INVENTION: MULTIGENE PREDICTORS OF RESPONSE TO CHEMOTHERAPY

; FILE REFERENCE: UTXC-880US

; CURRENT APPLICATION NUMBER: US/10/955.054A

; CURRENT FILING DATE: 2004-09-30

; NUMBER OF SEQ ID NOS: 195

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 180

; LENGTH: 2919

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-955-054A-180

Query Match 82.2%; Score 14.8; DB 6; Length 2919;  
Best Local Similarity 88.9%; Pred. No. 2.7e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18

Db 2550 GGGTCTGTCTGGCTGGCTC 2533

RESULT 20

US-11-136-527-3735

; Sequence 3735, Application US/11136527

; Publication No. US20050287570A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes

; FILE REFERENCE: 031896-041000 (AM101086)

; CURRENT APPLICATION NUMBER: US/11/136.527

; CURRENT FILING DATE: 2005-05-25

; PRIOR APPLICATION NUMBER: US 60/574,294

; PRIOR FILING DATE: 2005-05-26

; NUMBER OF SEQ ID NOS: 362830

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 3735

; LENGTH: 18171

; TYPE: DNA

; ORGANISM: Rattus norvegicus

US-11-136-527-3735

Query Match 82.2%; Score 14.8; DB 7; Length 18171;  
Best Local Similarity 88.9%; Pred. No. 2.4e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGCG 18

Db 2762 GGGCTGTCTGTGGCTGGCC 2779

RESULT 21

US-11-121-086-5

; Sequence 5, Application US/11121086

; Publication No. US20050266459A1

; GENERAL INFORMATION:

; APPLICANT: POULSEN, TIM S.

; APPLICANT: NIELSEN, KIRSTEN V.

; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES

; FILE REFERENCE: 09138.6000-00000

```
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5
; LENGTH: 153376
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-5

Query Match      82.2%; Score 14.8; DB 7; Length 153376;
Best Local Similarity 88.9%; Pred. No. 2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTCTCTGGCTGCGC 18
Db 89067 GGGTCTGGCTGGCTCCGC 89084

RESULT 22
US-10-995-561-28757/c
; Sequence 28757, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28757
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-28757

Query Match      80.0%; Score 14.4; DB 6; Length 201;
Best Local Similarity 93.8%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTCTCTGGCTGCGC 16
Db 128 GGGTCTTTCTGGCTGC 113

RESULT 23
US-10-995-561-71684
; Sequence 71684, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 71684
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-71684

Query Match      80.0%; Score 14.4; DB 6; Length 201;
Best Local Similarity 93.8%; Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5
; LENGTH: 153376
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-5

Query Match      82.2%; Score 14.8; DB 7; Length 153376;
Best Local Similarity 88.9%; Pred. No. 2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTCTCTGGCTGCGC 16
Db 74 GGGTCTTTCTGGCTGC 89

RESULT 24
US-11-128-061-7099
; Sequence 7099, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounst, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7099
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Cricetus griseus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (199)-(214)
; OTHER INFORMATION: n is a, c, g, or t
US-11-128-061-7099

Query Match      80.0%; Score 14.4; DB 7; Length 600;
Best Local Similarity 93.8%; Pred. No. 4.7e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGTCTCTCTGGCTGCGC 17
Db 115 GGTCTCTCTGGCAGCG 130

RESULT 25
US-10-750-185-61704/c
; Sequence 61704, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61704
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Bovine
US-10-750-185-61704
```



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Query Match      80.0%; Score 14.4; DB 6; Length 2173;
Best Local Similarity 93.8%; Pred. No. 4.3e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTCTCTGGCTGC 16
    ||||| |||||
Db 260 GGGTCTCTCTGGCTGC 275

RESULT 30
US-10-995-561-13424
; Sequence 13424, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13424
; LENGTH: 16964
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13424

Query Match      80.0%; Score 14.4; DB 6; Length 16964;
Best Local Similarity 93.8%; Pred. No. 3.6e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTCTCTGGCTGC 16
    ||||| |||||
Db 13508 GGGTCTCTCTGGCTGC 13523

RESULT 31
US-10-995-561-13245/c
; Sequence 13245, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13245
; LENGTH: 51749
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13245

Query Match      80.0%; Score 14.4; DB 6; Length 51749;
Best Local Similarity 93.8%; Pred. No. 3.3e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTCTCTGGCTGC 16
    ||||| |||||
Db 17419 GGGTCTCTCTGGCTGC 17404

RESULT 32
US-10-995-561-13331/c
; Sequence 13331, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
```

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```
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13331
; LENGTH: 98716
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13331

Query Match      80.0%; Score 14.4; DB 6; Length 98716;
Best Local Similarity 93.8%; Pred. No. 3.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGTCTCTCTGGCTGCG 17
    ||||| |||||
Db 12082 GGTCTCTCTGGCTGTG 12067

RESULT 33
US-11-121-086-42
; Sequence 42, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 142303
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-42

Query Match      80.0%; Score 14.4; DB 7; Length 142303;
Best Local Similarity 93.8%; Pred. No. 3e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGC 16
    ||||| |||||
Db 72472 GGGTCTGTCTGTCTGC 72487

RESULT 34
US-11-121-086-105/c
; Sequence 105, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 105
; LENGTH: 171486
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-105
```

Query Match 80.0%; Score 14.4; DB 7; Length 171486;  
 Best Local Similarity 93.8%; Pred. No. 3e+02; 1; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16  
 ||||| |||||  
 Db 151418 GGGTCTGCTGGCTGC 151403

RESULT 35  
 US-11-121-086-106/c  
 ; Sequence 106, Application US/11121086  
 ; Publication No. US2005026459A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: POULSEN, TIM S.  
 ; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES  
 ; FILE REFERENCE: 09138.6000-00000  
 ; CURRENT APPLICATION NUMBER: US/11/121,086  
 ; CURRENT FILING DATE: 2005-05-04  
 ; PRIOR FILING DATE: 2004-05-04  
 ; NUMBER OF SEQ ID NOS: 107  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 106  
 ; LENGTH: 179777  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-11-121-086-106

Query Match 80.0%; Score 14.4; DB 7; Length 179777;  
 Best Local Similarity 93.8%; Pred. No. 2.9e+02; 1; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16  
 ||||| |||||  
 Db 45129 GGGTCTGCTGGCTGC 45114

RESULT 36  
 US-10-775-169-52  
 ; Sequence 52, Application US/10775169  
 ; Publication No. US20050287532A9  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Burczynski, Michael  
 ; APPLICANT: Twine, Natalie  
 ; APPLICANT: Dörner, Andrew  
 ; APPLICANT: Trepicchio, William  
 ; TITLE OF INVENTION: Method for Monitoring Drug Activities In Vivo  
 ; FILE REFERENCE: AM101080 (031896-013000)  
 ; CURRENT APPLICATION NUMBER: US/10/775,169  
 ; CURRENT FILING DATE: 2004-02-11  
 ; NUMBER OF SEQ ID NOS: 5278  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 52  
 ; LENGTH: 198161  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-775-169-52

Query Match 80.0%; Score 14.4; DB 6; Length 198161;  
 Best Local Similarity 93.8%; Pred. No. 2.9e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16  
 ||||| |||||  
 Db 212 GGGTCTGCTGGCTGC 227

RESULT 37  
 US-10-933-025-22

; Sequence 22, Application US/10933025  
 ; Publication No. US20050265987A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ROSEN, STEVEN  
 ; APPLICANT: HEMMERICH, STEFAN  
 ; APPLICANT: TOMITA, MEGUMI  
 ; TITLE OF INVENTION: Sulfotransferases and methods of use  
 ; FILE REFERENCE: UCAL-230CON  
 ; CURRENT APPLICATION NUMBER: US/10/933,025  
 ; CURRENT FILING DATE: 2004-09-01  
 ; PRIOR FILING DATE: 2001-12-21  
 ; PRIOR FILING DATE: 2001-12-21  
 ; PRIOR FILING DATE: 2000-12-27  
 ; PRIOR FILING DATE: 2000-12-27  
 ; PRIOR FILING DATE: 2001-09-02  
 ; NUMBER OF SEQ ID NOS: 26  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 22  
 ; LENGTH: 268685  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: (1)..(268685)  
 ; OTHER INFORMATION: n = A, T, C or G  
 US-10-933-025-22

Query Match 80.0%; Score 14.4; DB 6; Length 268685;  
 Best Local Similarity 93.8%; Pred. No. 2.8e+02;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCTGC 16  
 ||||| |||||  
 Db 88869 GGATCTGCTGGCTGC 88884

RESULT 38  
 US-11-101-244-552646/c  
 ; Sequence 552646, Application US/11101244  
 ; Publication No. US20050246794A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dharmacon, Inc.  
 ; APPLICANT: Khvorova, Anastasia  
 ; APPLICANT: Reynolds, Angela  
 ; APPLICANT: Leake, Devin  
 ; APPLICANT: Marshall, William  
 ; APPLICANT: Scaringe, Stephen  
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
 ; FILE REFERENCE: 13499US  
 ; CURRENT APPLICATION NUMBER: US/11/101,244  
 ; CURRENT FILING DATE: 2005-04-07  
 ; PRIOR FILING DATE: 2003-09-10  
 ; PRIOR FILING DATE: 2003-09-10  
 ; PRIOR FILING DATE: 2002-11-14  
 ; NUMBER OF SEQ ID NOS: 1591911  
 ; SOFTWARE: Proprietary  
 ; SEQ ID NO 552646  
 ; LENGTH: 19  
 ; TYPE: RNA  
 ; ORGANISM: Homo sapiens  
 US-11-101-244-552646

Query Match 77.8%; Score 14; DB 8; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGTCTGCTGGCT 14  
 ||||| |||||  
 Db 15 GGGTCTGCTGGCT 2

```
RESULT 39
US-11-083-784-552646/c
; Sequence 552646, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Reynold, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083.784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: US/10/714,333
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 552646
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-552646

Query Match      77.8%; Score 14; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCT 14
   |||||
Db 15 GGGTCTGCTGGCT 2

RESULT 40
US-11-121-849-289285
; Sequence 289285, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121.849
; CURRENT FILING DATE: 2005-05-03
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 289285
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-289285

Query Match      77.8%; Score 14; DB 7; Length 25;
Best Local Similarity 100.0%; Pred. No. 9.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCT 14
   |||||
Db 4 GGGTCTGCTGGCT 17

RESULT 41
US-10-995-561-12647/c
; Sequence 12647, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12647
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-12647

Query Match      77.8%; Score 14; DB 6; Length 201;
Best Local Similarity 87.5%; Pred. No. 7.8e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGTCTGCTGGCTGC 16
   |||||
Db 108 GGGTCTGCTGGCTGC 93

RESULT 42
US-10-995-561-37164/c
; Sequence 37164, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 37164
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-37164

Query Match      77.8%; Score 14; DB 6; Length 201;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GGTCTGCTGGCTG 15
   |||||
Db 173 GGTCTGCTGGCTG 160

RESULT 43
US-10-995-561-63880/c
; Sequence 63880, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 63880
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-63880
```

```
Query Match      77.8%; Score 14; DB 6; Length 201;
Best Local Similarity 87.5%; Pred. No. 7.8e+02;
Matches 14; Conservative 1; Mismatches 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGC 16
    |||||:|||||
Db 108 GGGTCGGKCTGGCTGC 93

RESULT 44
US-10-995-561-64241
; Sequence 64241, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 64241
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-64241

Query Match      77.8%; Score 14; DB 6; Length 201;
Best Local Similarity 87.5%; Pred. No. 7.8e+02;
Matches 14; Conservative 1; Mismatches 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGC 16
    |||||:|||||
Db 94 GGGTCGGKCTGGCTGC 109

RESULT 45
US-10-750-185-32137
; Sequence 32137, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881083568
US-10-750-185-32137

Query Match      77.8%; Score 14; DB 6; Length 1460;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCT 14
    |||||:|||||
Db 213 GGGTCTGTCTGGCT 226

RESULT 46
US-10-750-623-32137
; Sequence 32137, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 32137
; LENGTH: 1460
; TYPE: DNA
; ORGANISM: Bovine 19866881083568
US-10-750-623-32137

Query Match      77.8%; Score 14; DB 6; Length 1460;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCT 14
    |||||:|||||
Db 213 GGGTCTGTCTGGCT 226

RESULT 47
US-11-037-243-47/c
; Sequence 47, Application US/11037243
; Publication No. US20050287546A1
; GENERAL INFORMATION:
; APPLICANT: PLOWMAN, GREGORY
; APPLICANT: WHYTE, DAVID
; APPLICANT: CAENEPEEL, SEAN
; APPLICANT: CHARVDCZAK, GLEN
; APPLICANT: MANNING, GERARD
; APPLICANT: SUDARSANAM, SUCHA
; TITLE OF INVENTION: NOVEL PROTEASES
; FILE REFERENCE: 038602/1214
; CURRENT APPLICATION NUMBER: US/11/037,243
; CURRENT FILING DATE: 2005-05-26
; PRIOR APPLICATION NUMBER: US/09/888,615
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/214,047
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIN Ver. 2.1
; SEQ ID NO 47
; LENGTH: 1671
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-037-243-47

Query Match      77.8%; Score 14; DB 7; Length 1671;
Best Local Similarity 100.0%; Pred. No. 6.6e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCT 14
    |||||:|||||
Db 362 GGGTCTGTCTGGCT 349

RESULT 48
```



```
US-10-995-561-497/c
; Sequence 497, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 497
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-497

Query Match      77.8%; Score 14; DB 6; Length 1907;
Best Local Similarity 87.5%; Pred. No. 6.6e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGC 16
        ||||| :|||||
DB      933 GGGTCGGKCTGGCTGC 918

RESULT 49
US-10-995-561-13367/c
; Sequence 13367, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13367
; LENGTH: 18394
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13367

Query Match      77.8%; Score 14; DB 6; Length 18394;
Best Local Similarity 87.5%; Pred. No. 5.5e+02;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGTCTGCTGGCTGC 16
        ||||| :|||||
DB      10856 GGGTCGGKCTGGCTGC 10841

RESULT 50
US-10-995-561-13275/c
; Sequence 13275, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13275
; LENGTH: 57073
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```
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13275

Query Match      77.8%; Score 14; DB 6; Length 57073;
Best Local Similarity 100.0%; Pred. No. 5e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GGTCTGCTGGCTG 15
        ||||| :|||||
DB      17388 GGTCTGCTGGCTG 17375

Search completed: January 11, 2006, 05:10:31
Job time : 395.636 secs
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:18:29 ; Search time 53.7374 Seconds  
(without alignments)  
628.495 Million cell updates/sec

Title: US-09-869-169C-12  
Perfect score: 19  
Sequence: 1 9999gtgtctgctgagc 19

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Issued Patents NA:\*

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- 2: /cgn2\_6/ptodata/1/ina/5 COMB.seq:\*
- 3: /cgn2\_6/ptodata/1/ina/6A COMB.seq:\*
- 4: /cgn2\_6/ptodata/1/ina/6B COMB.seq:\*
- 5: /cgn2\_6/ptodata/1/ina/H COMB.seq:\*
- 6: /cgn2\_6/ptodata/1/ina/PCUS COMB.seq:\*
- 7: /cgn2\_6/ptodata/1/ina/PP COMB.seq:\*
- 8: /cgn2\_6/ptodata/1/ina/RE COMB.seq:\*
- 9: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	17.4	91.6	1254	3	US-10-085-612A-4
2	17.4	91.6	35803	3	US-09-949-016-11863
3	17.4	91.6	35804	3	US-09-949-016-12962
4	17.4	91.6	103934	3	US-09-949-016-14433
5	16	84.2	601	3	US-09-949-016-187895
6	16	84.2	43267	3	US-09-949-016-17117
7	15.8	83.2	285	3	US-09-513-999C-3273
8	15.8	83.2	601	3	US-09-949-002-8841
9	15.8	83.2	601	3	US-09-949-002-8842
10	15.8	83.2	687	3	US-09-799-451-408
11	15.8	83.2	1086	3	US-09-664-249B-2
12	15.8	83.2	1086	3	US-09-762-027-2
13	15.8	83.2	1510	3	US-09-620-312D-142
14	15.8	83.2	8438	2	US-07-945-283-1
15	15.8	83.2	209631	3	US-09-949-002-574
16	15.8	83.2	209632	3	US-09-949-002-802
17	15.8	83.2	4403765	3	US-09-103-840A-2
18	15.8	83.2	4411529	3	US-09-103-840A-1
19	15.4	81.1	601	3	US-09-949-016-204195
20	15.4	81.1	601	3	US-09-949-016-204196
21	15.4	81.1	28374	3	US-09-949-016-17508
22	15.4	81.1	54986	3	US-09-949-016-16716
23	15.4	81.1	75674	3	US-09-949-016-17597
24	15.4	81.1	234884	3	US-09-949-016-16420

C 98	14.8	77.9	86213	3	US-09-949-016-17242	Sequence 17242, A	C 171	14.2	74.7	684	3	US-09-270-767-14554	Sequence 14554, A
C 99	14.8	77.9	86213	3	US-09-949-016-17243	Sequence 17243, A	C 172	14.2	74.7	912	3	US-09-252-991A-10351	Sequence 10351, A
C 100	14.8	77.9	90923	3	US-09-949-002-623	Sequence 623, App	C 173	14.2	74.7	1005	3	US-09-252-991A-10798	Sequence 10798, A
C 101	14.8	77.9	90925	3	US-09-949-002-789	Sequence 789, App	C 174	14.2	74.7	1037	3	US-09-902-540-5876	Sequence 5876, App
C 102	14.8	77.9	114183	3	US-09-949-002-849	Sequence 849, App	C 175	14.2	74.7	1039	3	US-09-902-540-155	Sequence 155, App
C 103	14.8	77.9	114793	3	US-10-148-806-3	Sequence 3, Appli	C 176	14.2	74.7	1055	3	US-09-215-131-3	Sequence 3, Appli
C 104	14.8	77.9	127546	3	US-09-949-002-624	Sequence 624, App	C 177	14.2	74.7	1055	3	US-09-222-734-3	Sequence 3, Appli
C 105	14.8	77.9	127546	3	US-09-949-016-16435	Sequence 16435, A	C 178	14.2	74.7	1218	3	US-09-902-540-9113	Sequence 9113, App
C 106	14.8	77.9	387902	3	US-09-949-016-14543	Sequence 14543, A	C 179	14.2	74.7	1242	3	US-09-489-039A-5704	Sequence 5704, App
C 107	14.8	77.9	421883	3	US-09-949-016-12557	Sequence 12557, A	C 180	14.2	74.7	1422	3	US-09-252-991A-10234	Sequence 10234, A
C 108	14.8	77.9	450395	3	US-09-949-016-15473	Sequence 15473, A	C 181	14.2	74.7	1422	3	US-09-434-708-3	Sequence 3, Appli
C 109	14.4	75.8	601	3	US-09-949-016-62663	Sequence 62663, A	C 182	14.2	74.7	1547	3	US-09-434-708-1	Sequence 1, Appli
C 110	14.4	75.8	601	3	US-09-949-016-62699	Sequence 62699, A	C 183	14.2	74.7	1829	3	US-10-104-047-851	Sequence 851, App
C 111	14.4	75.8	601	3	US-09-949-016-62599	Sequence 62599, A	C 184	14.2	74.7	1930	3	US-10-104-047-809	Sequence 809, App
C 112	14.4	75.8	601	3	US-09-949-016-84392	Sequence 84392, A	C 185	14.2	74.7	2064	3	US-10-104-047-196	Sequence 196, App
C 113	14.4	75.8	601	3	US-09-949-016-84392	Sequence 84393, A	C 186	14.2	74.7	2316	3	US-09-949-016-4361	Sequence 4361, App
C 114	14.4	75.8	601	3	US-09-949-016-138651	Sequence 138651, A	C 187	14.2	74.7	2326	3	US-09-949-016-521	Sequence 521, App
C 115	14.4	75.8	601	3	US-09-949-016-153695	Sequence 153695, A	C 188	14.2	74.7	2444	3	US-08-906-791-1	Sequence 1, Appli
C 116	14.4	75.8	601	3	US-09-949-016-201510	Sequence 201510, A	C 189	14.2	74.7	2469	3	US-09-111-730-5	Sequence 5, Appli
C 117	14.4	75.8	601	3	US-09-949-016-201511	Sequence 201511, A	C 190	14.2	74.7	2499	2	US-08-485-618-96	Sequence 96, Appli
C 118	14.4	75.8	601	3	US-09-949-016-201717	Sequence 201717, A	C 191	14.2	74.7	2499	2	US-08-605-672-96	Sequence 96, Appli
C 119	14.4	75.8	601	3	US-09-949-016-201718	Sequence 201718, A	C 192	14.2	74.7	2499	2	US-08-482-293A-96	Sequence 96, Appli
C 120	14.4	75.8	741	3	US-09-489-039A-6580	Sequence 580, App	C 193	14.2	74.7	2499	2	US-08-943-363-96	Sequence 96, Appli
C 121	14.4	75.8	1024	3	US-09-489-039A-5945	Sequence 5945, App	C 194	14.2	74.7	2499	3	US-09-193-043-96	Sequence 96, Appli
C 122	14.4	75.8	1024	3	US-09-270-767-4898	Sequence 4898, App	C 195	14.2	74.7	2499	3	US-09-688-307A-96	Sequence 96, Appli
C 123	14.4	75.8	1160	3	US-09-270-767-20180	Sequence 20180, A	C 196	14.2	74.7	2499	3	US-09-350-259-96	Sequence 96, Appli
C 124	14.4	75.8	1301	3	US-09-949-016-1218	Sequence 1218, App	C 197	14.2	74.7	2527	3	US-09-555-790A-1	Sequence 1, Appli
C 125	14.4	75.8	1320	3	US-09-620-3120-268	Sequence 268, App	C 198	14.2	74.7	2527	3	US-09-202-047A-1	Sequence 1, Appli
C 126	14.4	75.8	1637	3	US-09-902-540-8364	Sequence 8364, App	C 199	14.2	74.7	2527	3	US-09-763-902B-13	Sequence 13, Appli
C 127	14.4	75.8	2711	3	US-09-799-451-389	Sequence 389, App	C 200	14.2	74.7	2855	2	US-08-852-153-1	Sequence 1, Appli
C 128	14.4	75.8	2824	3	US-09-662-831-3	Sequence 3, Appli	C 201	14.2	74.7	2873	3	US-10-132-350-1	Sequence 1, Appli
C 129	14.4	75.8	6828	3	US-09-662-831-4	Sequence 4, Appli	C 202	14.2	74.7	2912	3	US-10-104-047-1345	Sequence 1, Appli
C 130	14.4	75.8	7225	3	US-09-949-016-12960	Sequence 12960, A	C 203	14.2	74.7	2992	2	US-07-718-575-1	Sequence 1, Appli
C 131	14.4	75.8	8078	3	US-09-902-540-876	Sequence 876, App	C 204	14.2	74.7	2992	2	US-08-481-206-1	Sequence 1, Appli
C 132	14.4	75.8	8187	3	US-09-702-251-3	Sequence 3, Appli	C 205	14.2	74.7	2992	2	US-08-486-269A-1	Sequence 989, App
C 133	14.4	75.8	33349	3	US-10-131-827-8866	Sequence 8866, App	C 206	14.2	74.7	3178	3	US-10-104-047-989	Sequence 31, Appli
C 134	14.4	75.8	48471	3	US-09-949-016-17399	Sequence 17399, A	C 207	14.2	74.7	3234	2	US-08-264-534-31	Sequence 10, Appli
C 135	14.4	75.8	79787	3	US-09-949-016-16416	Sequence 16416, A	C 208	14.2	74.7	3234	2	US-08-083-590A-10	Sequence 31, Appli
C 136	14.4	75.8	83697	3	US-09-949-016-13637	Sequence 13637, A	C 209	14.2	74.7	3234	2	US-08-465-500-31	Sequence 31, Appli
C 137	14.4	75.8	86639	3	US-09-949-016-16040	Sequence 16040, A	C 210	14.2	74.7	3234	2	US-08-346-128-31	Sequence 10, Appli
C 138	14.4	75.8	105210	3	US-09-949-016-14158	Sequence 17397, A	C 211	14.2	74.7	3234	3	US-08-532-384-10	Sequence 31, Appli
C 139	14.4	75.8	194889	3	US-09-949-016-15654	Sequence 14158, A	C 212	14.2	74.7	3251	3	US-08-893-828-31	Sequence 6, Appli
C 140	14.4	75.8	247781	3	US-09-949-016-14193	Sequence 15654, A	C 213	14.2	74.7	3255	2	US-09-085-199B-6	Sequence 5, Appli
C 141	14.4	75.8	321022	3	US-09-949-016-11852	Sequence 11852, A	C 214	14.2	74.7	3297	3	US-08-852-153-5	Sequence 1, Appli
C 142	14.4	75.8	321022	3	US-09-949-016-14166	Sequence 14166, A	C 215	14.2	74.7	3297	3	US-09-476-202A-1	Sequence 3, Appli
C 143	14.2	74.7	187	3	US-09-949-016-33602	Sequence 14166, A	C 216	14.2	74.7	3297	3	US-08-852-153-3	Sequence 1, Appli
C 144	14.2	74.7	206	3	US-09-513-999C-33602	Sequence 33602, A	C 217	14.2	74.7	3297	2	US-08-173-497-1	Sequence 1, Appli
C 145	14.2	74.7	227	3	US-09-513-999C-25145	Sequence 255, App	C 218	14.2	74.7	3297	2	US-08-286-889-1	Sequence 1, Appli
C 146	14.2	74.7	346	3	US-09-016-434-255	Sequence 21572, A	C 219	14.2	74.7	3297	2	US-08-485-618-1	Sequence 1, Appli
C 147	14.2	74.7	435	3	US-09-513-999C-21572	Sequence 21572, A	C 220	14.2	74.7	3297	2	US-08-362-652-1	Sequence 1, Appli
C 148	14.2	74.7	468	3	US-09-434-708-5	Sequence 5, Appli	C 221	14.2	74.7	3297	2	US-08-605-672-1	Sequence 1, Appli
C 149	14.2	74.7	540	3	US-09-621-976-496	Sequence 496, App	C 222	14.2	74.7	3297	2	US-08-482-293A-1	Sequence 1, Appli
C 150	14.2	74.7	560	3	US-09-252-991A-10625	Sequence 10625, A	C 223	14.2	74.7	3297	2	US-08-943-363-1	Sequence 1, Appli
C 151	14.2	74.7	601	3	US-09-854-133-301	Sequence 301, App	C 224	14.2	74.7	3297	3	US-09-193-043-1	Sequence 1, Appli
C 152	14.2	74.7	601	3	US-09-949-016-34815	Sequence 34815, A	C 225	14.2	74.7	3297	3	US-09-688-307A-1	Sequence 1, Appli
C 153	14.2	74.7	601	3	US-09-949-016-34816	Sequence 34816, A	C 226	14.2	74.7	3297	3	US-09-350-259-1	Sequence 1, Appli
C 154	14.2	74.7	601	3	US-09-949-016-39820	Sequence 39820, A	C 227	14.2	74.7	3297	3	US-08-485-618-98	Sequence 98, Appli
C 155	14.2	74.7	601	3	US-09-949-016-42917	Sequence 42917, A	C 228	14.2	74.7	3297	2	US-08-605-672-98	Sequence 98, Appli
C 156	14.2	74.7	601	3	US-09-949-016-64653	Sequence 64653, A	C 229	14.2	74.7	3297	2	US-08-482-293A-98	Sequence 98, Appli
C 157	14.2	74.7	601	3	US-09-949-016-64654	Sequence 64654, A	C 230	14.2	74.7	3297	2	US-08-943-363-98	Sequence 98, Appli
C 158	14.2	74.7	601	3	US-09-949-016-66987	Sequence 66987, A	C 231	14.2	74.7	3297	3	US-09-193-043-98	Sequence 98, Appli
C 159	14.2	74.7	601	3	US-09-949-016-67271	Sequence 67271, A	C 232	14.2	74.7	3297	3	US-09-688-307A-98	Sequence 98, Appli
C 160	14.2	74.7	601	3	US-09-949-016-73396	Sequence 73396, A	C 233	14.2	74.7	3297	3	US-09-350-259-98	Sequence 98, Appli
C 161	14.2	74.7	601	3	US-09-949-016-73397	Sequence 73397, A	C 234	14.2	74.7	3297	2	US-09-489-602-4	Sequence 4, Appli
C 162	14.2	74.7	601	3	US-09-949-016-80917	Sequence 80917, A	C 235	14.2	74.7	3297	2	US-08-485-618-97	Sequence 97, Appli
C 163	14.2	74.7	601	3	US-09-949-016-132600	Sequence 132600, A	C 236	14.2	74.7	3297	2	US-08-605-672-97	Sequence 97, Appli
C 164	14.2	74.7	601	3	US-09-949-016-169572	Sequence 169572, A	C 237	14.2	74.7	3297	2	US-08-482-293A-97	Sequence 97, Appli
C 165	14.2	74.7	601	3	US-09-949-016-177630	Sequence 177630, A	C 238	14.2	74.7	3297	2	US-08-943-363-97	Sequence 97, Appli
C 166	14.2	74.7	601	3	US-09-949-016-177631	Sequence 177631, A	C 239	14.2	74.7	3297	3	US-09-193-043-97	Sequence 97, Appli
C 167	14.2	74.7	601	3	US-09-949-016-177632	Sequence 177632, A	C 240	14.2	74.7	3297	3	US-09-688-307A-97	Sequence 97, Appli
C 168	14.2	74.7	601	3	US-09-949-016-177633	Sequence 177633, A	C 241	14.2	74.7	3297	3	US-09-350-259-97	Sequence 97, Appli
C 169	14.2	74.7	601	3	US-09-949-016-177634	Sequence 177634, A	C 242	14.2	74.7	4010	2	US-09-785-310A-3	Sequence 75, Appli
C 170	14.2	74.7	627	3	US-09-949-016-189951	Sequence 189951, A	C 243	14.2	74.7	4138	2	US-08-447-411-75	
					US-09-252-991A-10868	Sequence 10868, A							

244	14.2	74.7	4138	2	US-08-662-227-33	Sequence 33, Appl	317	14.2	74.7	100463	3	US-09-949-016-12511	Sequence 12511, A
245	14.2	74.7	4138	3	US-09-017-947-33	Sequence 33, Appl	318	14.2	74.7	100468	3	US-09-949-016-13725	Sequence 13725, A
246	14.2	74.7	4138	3	US-09-925-442-33	Sequence 33, Appl	319	14.2	74.7	117838	3	US-09-949-016-17595	Sequence 17595, A
247	14.2	74.7	5080	3	US-09-976-594-495	Sequence 495, Appl	320	14.2	74.7	118136	3	US-09-949-016-12439	Sequence 12439, A
248	14.2	74.7	5211	2	US-08-447-411-1	Sequence 1, Appl	321	14.2	74.7	160759	3	US-09-949-016-16514	Sequence 16514, A
249	14.2	74.7	5454	3	US-09-949-016-1972	Sequence 1972, Ap	322	14.2	74.7	174029	3	US-09-949-016-12610	Sequence 12610, A
c 250	14.2	74.7	5452	3	US-09-949-016-1113	Sequence 1113, Ap	323	14.2	74.7	174030	3	US-09-949-016-13880	Sequence 13880, A
c 251	14.2	74.7	5672	3	US-09-023-655-1392	Sequence 1392, Ap	324	14.2	74.7	187916	3	US-09-949-016-12980	Sequence 12980, A
252	14.2	74.7	5924	2	US-08-447-411-44	Sequence 44, Appl	325	14.2	74.7	199471	3	US-09-949-016-14083	Sequence 14083, A
253	14.2	74.7	5948	2	US-08-662-227-1	Sequence 1, Appl	326	14.2	74.7	373182	3	US-09-949-016-17371	Sequence 17371, A
254	14.2	74.7	5948	3	US-09-017-947-1	Sequence 1, Appl	327	14.2	74.7	373594	3	US-09-949-016-12062	Sequence 12062, A
255	14.2	74.7	5948	3	US-09-925-442-1	Sequence 1, Appl	328	14.2	74.7	450395	3	US-09-949-016-15473	Sequence 15473, A
256	14.2	74.7	7350	2	US-07-865-662F-14	Sequence 14, Appl	329	14	73.7	533	3	US-09-513-999C-13604	Sequence 13604, A
257	14.2	74.7	7350	3	US-08-374-219B-16	Sequence 16, Appl	330	14	73.7	601	3	US-09-949-016-25536	Sequence 25536, A
258	14.2	74.7	8404	3	US-09-973-278-840	Sequence 840, App	331	14	73.7	601	3	US-09-949-016-59435	Sequence 59435, A
259	14.2	74.7	8693	3	US-09-949-016-14042	Sequence 14042, A	332	14	73.7	601	3	US-09-949-016-94143	Sequence 94143, A
260	14.2	74.7	8738	3	US-09-902-540-873	Sequence 873, App	333	14	73.7	601	3	US-09-949-016-131103	Sequence 131103, A
261	14.2	74.7	8820	3	US-08-902-540-974	Sequence 974, App	334	14	73.7	601	3	US-09-949-016-131104	Sequence 131104, A
262	14.2	74.7	9161	3	US-09-973-278-839	Sequence 839, App	335	14	73.7	601	3	US-09-949-016-131105	Sequence 131105, A
263	14.2	74.7	9162	3	US-09-973-278-841	Sequence 841, App	336	14	73.7	601	3	US-09-949-016-131106	Sequence 131106, A
c 264	14.2	74.7	9406	3	US-09-949-016-17494	Sequence 17494, A	337	14	73.7	601	3	US-09-949-016-160622	Sequence 160622, A
c 265	14.2	74.7	10223	3	US-09-949-016-14500	Sequence 14500, A	338	14	73.7	601	3	US-09-949-016-160623	Sequence 160623, A
c 266	14.2	74.7	10348	2	US-08-457-273B-41	Sequence 41, Appl	339	14	73.7	601	3	US-09-949-016-160624	Sequence 160624, A
c 267	14.2	74.7	10348	3	US-08-556-419-13	Sequence 13, Appl	340	14	73.7	601	3	US-09-949-016-179785	Sequence 179785, A
c 268	14.2	74.7	10348	3	US-09-041-886-14	Sequence 14, Appl	341	14	73.7	997	3	US-09-690-454-33	Sequence 33, Appl
c 269	14.2	74.7	10366	2	US-08-246-982A-5	Sequence 5, Appl	342	14	73.7	1236	3	US-09-016-434-717	Sequence 717, App
c 270	14.2	74.7	10366	2	US-08-453-265-5	Sequence 5, Appl	343	14	73.7	1243	2	US-08-702-344-27	Sequence 27, Appl
271	14.2	74.7	10952	2	US-08-602-036A-1	Sequence 1, Appl	344	14	73.7	1404	3	US-09-489-039A-2522	Sequence 2522, Ap
272	14.2	74.7	10952	2	US-08-502-374B-1	Sequence 1, Appl	345	14	73.7	2065	3	US-10-104-047-920	Sequence 920, App
273	14.2	74.7	10952	2	US-08-642-407A-1	Sequence 1, Appl	346	14	73.7	3611	3	US-09-221-017B-877	Sequence 877, App
c 274	14.2	74.7	11366	3	US-09-949-016-13616	Sequence 13616, A	347	14	73.7	17730	3	US-09-949-016-12123	Sequence 12123, A
c 275	14.2	74.7	11808	3	US-09-949-016-15281	Sequence 15281, A	348	14	73.7	17731	3	US-09-949-016-13472	Sequence 13472, A
276	14.2	74.7	11874	3	US-09-949-016-17115	Sequence 17115, A	349	14	73.7	29393	3	US-09-949-016-17024	Sequence 17024, A
277	14.2	74.7	12047	2	US-09-022-461-1	Sequence 1, Appl	350	14	73.7	61847	3	US-09-949-016-16677	Sequence 16677, A
278	14.2	74.7	12047	3	US-09-033-556-3	Sequence 3, Appl	351	14	73.7	87870	3	US-09-949-016-14461	Sequence 14461, A
279	14.2	74.7	12047	3	US-09-474-699-11	Sequence 11, Appl	352	14	73.7	97423	3	US-09-949-016-12742	Sequence 12742, A
280	14.2	74.7	12047	3	US-09-151-376-3	Sequence 3, Appl	353	14	73.7	97424	3	US-09-949-016-15576	Sequence 15576, A
281	14.2	74.7	12047	3	US-09-814-351-11	Sequence 11, Appl	354	14	73.7	151088	3	US-09-949-016-16240	Sequence 16240, A
282	14.2	74.7	12047	3	US-09-392-822A-4	Sequence 4, Appl	355	14	73.7	160018	3	US-09-949-016-12617	Sequence 12617, A
283	14.2	74.7	12047	3	US-09-814-357-11	Sequence 11, Appl	356	14	73.7	160018	3	US-09-949-016-15994	Sequence 15994, A
284	14.2	74.7	12047	3	US-09-875-228-1	Sequence 1, Appl	357	14	73.7	199945	3	US-09-949-016-15436	Sequence 15436, A
285	14.2	74.7	12707	3	US-09-949-016-16828	Sequence 16828, A	358	14	73.7	390416	3	US-09-949-016-16323	Sequence 16323, A
c 286	14.2	74.7	13104	3	US-09-949-016-13714	Sequence 13714, A	359	14	73.7	786431	3	US-09-751-389-3	Sequence 3, Appl
c 287	14.2	74.7	13108	3	US-09-949-016-12855	Sequence 12855, A	360	13.8	72.6	25	3	US-09-396-196G-9651	Sequence 9651, Ap
288	14.2	74.7	15454	3	US-09-949-016-12855	Sequence 16679, A	361	13.8	72.6	25	3	US-09-396-196G-9652	Sequence 9652, Ap
289	14.2	74.7	15593	3	US-09-949-016-16679	Sequence 17177, A	362	13.8	72.6	185	2	US-09-818-875-1786	Sequence 1786, Ap
c 290	14.2	74.7	18079	3	US-09-949-016-13344	Sequence 13344, A	363	13.8	72.6	121	3	US-09-818-875-1787	Sequence 1787, Ap
c 291	14.2	74.7	18417	3	US-09-949-016-13389	Sequence 13389, A	364	13.8	72.6	121	3	US-09-313-294A-3099	Sequence 3099, Ap
c 292	14.2	74.7	21777	3	US-09-476-202A-3	Sequence 3, Appl	365	13.8	72.6	121	3	US-08-611-757-29	Sequence 29, Appl
c 293	14.2	74.7	29930	3	US-09-949-016-15326	Sequence 15326, A	366	13.8	72.6	185	2	US-09-949-016-16240	Sequence 16240, A
c 294	14.2	74.7	34276	3	US-09-949-016-12863	Sequence 12863, A	367	13.8	72.6	185	2	US-09-949-016-12617	Sequence 12617, A
c 295	14.2	74.7	34278	3	US-09-949-016-16103	Sequence 16103, A	368	13.8	72.6	221	3	US-09-949-016-15994	Sequence 15994, A
c 296	14.2	74.7	39754	3	US-09-949-016-14689	Sequence 14689, A	369	13.8	72.6	221	3	US-09-949-016-15436	Sequence 15436, A
c 297	14.2	74.7	42157	3	US-08-311-731A-126	Sequence 126, App	370	13.8	72.6	221	3	US-09-949-016-16323	Sequence 16323, A
c 298	14.2	74.7	42250	3	US-09-949-016-15426	Sequence 15426, A	371	13.8	72.6	226	3	US-09-364-206-30	Sequence 30, Appl
c 299	14.2	74.7	42989	3	US-09-949-016-12931	Sequence 12291, A	372	13.8	72.6	259	3	US-09-364-206-12	Sequence 12, Appl
c 300	14.2	74.7	42992	3	US-09-949-016-15428	Sequence 15428, A	373	13.8	72.6	320	3	US-09-313-294A-6936	Sequence 6936, Ap
c 301	14.2	74.7	45427	3	US-09-949-016-16243	Sequence 16243, A	374	13.8	72.6	358	2	US-07-925-920-1	Sequence 1, Appl
c 302	14.2	74.7	61158	3	US-09-949-016-15041	Sequence 15041, A	375	13.8	72.6	366	3	US-09-621-976-16903	Sequence 16903, A
c 303	14.2	74.7	63187	3	US-09-949-016-15041	Sequence 15041, A	376	13.8	72.6	402	3	US-09-270-767-26943	Sequence 26943, A
c 304	14.2	74.7	63187	3	US-09-949-016-16288	Sequence 16288, A	377	13.8	72.6	485	3	US-09-621-976-10403	Sequence 10403, A
c 305	14.2	74.7	65300	3	US-09-949-016-16288	Sequence 16288, A	378	13.8	72.6	488	3	US-09-364-206-9	Sequence 9, Appl
c 306	14.2	74.7	66213	3	US-09-949-016-16813	Sequence 16813, A	379	13.8	72.6	517	3	US-09-621-976-1687	Sequence 1687, Ap
c 307	14.2	74.7	66213	3	US-09-949-016-16813	Sequence 16813, A	380	13.8	72.6	586	3	US-09-364-206-10	Sequence 10, Appl
c 308	14.2	74.7	66213	3	US-09-949-016-16739	Sequence 16739, A	381	13.8	72.6	590	3	US-09-270-767-14396	Sequence 14396, A
c 309	14.2	74.7	68720	3	US-09-949-016-12799	Sequence 12799, A	382	13.8	72.6	601	3	US-09-949-016-18112	Sequence 18112, A
c 310	14.2	74.7	70000	3	US-09-851-896-3	Sequence 3, Appl	383	13.8	72.6	601	3	US-09-949-016-18113	Sequence 18113, A
c 311	14.2	74.7	70383	3	US-10-283-247-3	Sequence 3, Appl	384	13.8	72.6	601	3	US-09-949-016-18114	Sequence 18114, A
c 312	14.2	74.7	73757	3	US-09-949-016-15369	Sequence 15369, A	385	13.8	72.6	601	3	US-09-949-016-24371	Sequence 24371, A
c 313	14.2	74.7	75431	3	US-09-949-016-15122	Sequence 15122, A	386	13.8	72.6	601	3	US-09-949-016-33641	Sequence 33641, A
c 314	14.2	74.7	76399	3	US-09-949-016-16819	Sequence 16819, A	387	13.8	72.6	601	3	US-09-949-016-40679	Sequence 40679, A
315	14.2	74.7	87562	3	US-09-949-016-13685	Sequence 13685, A	388	13.8	72.6	601	3	US-09-949-016-42837	Sequence 42837, A
316	14.2	74.7	93894	3	US-09-949-016-13629	Sequence 13629, A	389	13.8	72.6	601	3	US-09-949-016-42838	Sequence 42838, A

C 390	13.8	72.6	601.3	US-09-949-016-42840	Sequence 42840, A	C 463	13.8	72.6	2095.3	US-09-456-886-16	Sequence 16, Appl
C 391	13.8	72.6	601.3	US-09-949-016-43902	Sequence 43902, A	C 464	13.8	72.6	2095.3	US-09-824-847-16	Sequence 16, Appl
C 392	13.8	72.6	601.3	US-09-949-016-51622	Sequence 51622, A	C 465	13.8	72.6	2095.3	US-09-880-642-16	Sequence 16, Appl
C 393	13.8	72.6	601.3	US-09-949-016-51623	Sequence 51623, A	C 466	13.8	72.6	2152.3	US-09-016-434-1305	Sequence 1305, Ap
C 394	13.8	72.6	601.3	US-09-949-016-51624	Sequence 51624, A	C 467	13.8	72.6	2152.3	US-09-023-655-1282	Sequence 1282, Ap
C 395	13.8	72.6	601.3	US-09-949-016-59182	Sequence 59182, A	C 468	13.8	72.6	2154.3	US-09-949-016-3904	Sequence 3904, Ap
C 396	13.8	72.6	601.3	US-09-949-016-59183	Sequence 59183, A	C 469	13.8	72.6	2161.3	US-09-620-312D-1053	Sequence 1053, Ap
C 397	13.8	72.6	601.3	US-09-949-016-59184	Sequence 59184, A	C 470	13.8	72.6	2170.3	US-09-799-451-168	Sequence 168, App
C 398	13.8	72.6	601.3	US-09-949-016-62481	Sequence 62481, A	C 471	13.8	72.6	2211.3	US-09-799-451-181	Sequence 181, App
C 399	13.8	72.6	601.3	US-09-949-016-62481	Sequence 62481, A	C 472	13.8	72.6	2230.3	US-09-620-312D-1052	Sequence 1052, App
C 400	13.8	72.6	601.3	US-09-949-016-86476	Sequence 86476, A	C 473	13.8	72.6	2276.3	US-10-104-047-624	Sequence 624, App
C 401	13.8	72.6	601.3	US-09-949-016-87179	Sequence 87179, A	C 474	13.8	72.6	2470.3	US-09-091-725-18	Sequence 18, Appl
C 402	13.8	72.6	601.3	US-09-949-016-88410	Sequence 88410, A	C 475	13.8	72.6	2546.3	US-09-091-725-12	Sequence 12, Appl
C 403	13.8	72.6	601.3	US-09-949-016-88411	Sequence 88411, A	C 476	13.8	72.6	2556.3	US-08-976-259-61	Sequence 61, Appl
C 404	13.8	72.6	601.3	US-09-949-016-92391	Sequence 92391, A	C 477	13.8	72.6	2556.3	US-09-956-004-61	Sequence 61, Appl
C 405	13.8	72.6	601.3	US-09-949-016-94167	Sequence 94167, A	C 478	13.8	72.6	2767.3	US-09-949-016-401	Sequence 401, App
C 406	13.8	72.6	601.3	US-09-949-016-138740	Sequence 138740, A	C 479	13.8	72.6	2907.3	US-09-232-200-52	Sequence 52, Appl
C 407	13.8	72.6	601.3	US-09-949-016-173022	Sequence 173022, A	C 480	13.8	72.6	2907.3	US-09-232-197-52	Sequence 52, Appl
C 408	13.8	72.6	601.3	US-09-949-016-176123	Sequence 176123, A	C 481	13.8	72.6	2907.3	US-09-232-201-52	Sequence 52, Appl
C 409	13.8	72.6	601.3	US-09-949-016-176124	Sequence 176124, A	C 482	13.8	72.6	2907.3	US-09-232-195-52	Sequence 52, Appl
C 410	13.8	72.6	601.3	US-09-949-016-195266	Sequence 195266, A	C 483	13.8	72.6	2917.3	US-09-232-200-26	Sequence 26, Appl
C 411	13.8	72.6	601.3	US-09-949-016-195267	Sequence 195267, A	C 484	13.8	72.6	2917.3	US-09-232-197-26	Sequence 26, Appl
C 412	13.8	72.6	601.3	US-09-949-016-195268	Sequence 195268, A	C 485	13.8	72.6	2917.3	US-09-232-201-26	Sequence 26, Appl
C 413	13.8	72.6	601.3	US-09-949-016-195269	Sequence 195269, A	C 486	13.8	72.6	2917.3	US-09-232-195-26	Sequence 26, Appl
C 414	13.8	72.6	601.3	US-09-949-016-199542	Sequence 199542, A	C 487	13.8	72.6	3057.2	US-08-551-459-3	Sequence 3, Appl
C 415	13.8	72.6	601.3	US-09-949-016-200935	Sequence 200935, A	C 488	13.8	72.6	3116.3	US-09-904-615-43	Sequence 43, Appl
C 416	13.8	72.6	601.3	US-09-949-016-205422	Sequence 205422, A	C 489	13.8	72.6	3116.3	US-10-054-988-43	Sequence 43, Appl
C 417	13.8	72.6	601.3	US-09-949-016-205423	Sequence 205423, A	C 490	13.8	72.6	3237.3	US-08-451-946B-5	Sequence 5, Appl
C 418	13.8	72.6	611.3	US-09-270-767-11377	Sequence 11377, A	C 491	13.8	72.6	3237.3	US-08-446-938B-5	Sequence 5, Appl
C 419	13.8	72.6	634.3	US-09-364-206-11	Sequence 11, Appl	C 492	13.8	72.6	3237.3	US-08-311-703B-5	Sequence 5, Appl
C 420	13.8	72.6	663.3	US-09-854-133-460	Sequence 460, App	C 493	13.8	72.6	3237.3	US-08-446-939B-5	Sequence 5, Appl
C 421	13.8	72.6	684.3	US-09-335-224B-5	Sequence 5, Appl	C 494	13.8	72.6	3237.3	US-09-183-543-5	Sequence 5, Appl
C 422	13.8	72.6	684.3	US-09-625-191B-5	Sequence 5, Appl	C 495	13.8	72.6	3237.3	US-08-446-936A-5	Sequence 5, Appl
C 423	13.8	72.6	700.3	US-09-171-209-53	Sequence 53, Appl	C 496	13.8	72.6	3237.3	PCT-US92-09326-1	Sequence 1, Appl
C 424	13.8	72.6	734.3	US-09-232-191-16	Sequence 16, Appl	C 497	13.8	72.6	3267.3	US-09-328-352-1597	Sequence 1597, Ap
C 425	13.8	72.6	734.3	US-09-232-197-16	Sequence 16, Appl	C 498	13.8	72.6	3466.2	US-08-551-459-5	Sequence 5, Appl
C 426	13.8	72.6	734.3	US-09-232-200-16	Sequence 16, Appl	C 499	13.8	72.6	3921.3	US-09-949-016-628	Sequence 628, App
C 427	13.8	72.6	734.3	US-09-232-201-16	Sequence 16, Appl	C 500	13.8	72.6	3921.3	US-09-949-016-62120	Sequence 2120, Ap
C 428	13.8	72.6	734.3	US-09-232-195-16	Sequence 16, Appl	C 501	13.8	72.6	4047.3	US-09-081-385-1	Sequence 1, Appl
C 429	13.8	72.6	761.3	US-10-002-344A-30	Sequence 30, Appl	C 502	13.8	72.6	4047.3	US-09-081-385-147	Sequence 147, App
C 430	13.8	72.6	900.3	US-09-589-927-3	Sequence 3, Appl	C 503	13.8	72.6	4047.3	US-09-752-639-1	Sequence 1, Appl
C 431	13.8	72.6	900.3	US-09-277-665-3	Sequence 3, Appl	C 504	13.8	72.6	4047.3	US-09-752-639-147	Sequence 147, App
C 432	13.8	72.6	900.3	US-09-589-987-3	Sequence 3, Appl	C 505	13.8	72.6	4047.3	US-09-712-813-1	Sequence 1, Appl
C 433	13.8	72.6	1029.3	US-09-270-767-13603	Sequence 13603, A	C 506	13.8	72.6	4047.3	US-09-712-813-147	Sequence 147, App
C 434	13.8	72.6	1170.3	US-09-252-991A-13367	Sequence 13367, A	C 507	13.8	72.6	4047.3	US-09-700-354A-1	Sequence 1, Appl
C 435	13.8	72.6	1400.3	US-09-774-430-5	Sequence 5, Appl	C 508	13.8	72.6	4047.3	US-09-700-354A-147	Sequence 147, App
C 436	13.8	72.6	1401.3	US-09-489-039A-483	Sequence 483, App	C 509	13.8	72.6	4175.3	US-09-548-473B-2	Sequence 2, Appl
C 437	13.8	72.6	1642.3	US-10-104-047-827	Sequence 827, App	C 510	13.8	72.6	4359.2	US-09-484-970B-4	Sequence 4, Appl
C 438	13.8	72.6	1658.3	US-10-002-344A-31	Sequence 31, Appl	C 511	13.8	72.6	4584.2	US-08-901-200A-15	Sequence 15, Appl
C 439	13.8	72.6	1695.3	US-09-252-991A-12739	Sequence 12739, A	C 512	13.8	72.6	4584.2	US-09-219-391-15	Sequence 15, Appl
C 440	13.8	72.6	1744.3	US-09-599-360B-41	Sequence 41, Appl	C 513	13.8	72.6	5007.3	US-09-548-473B-3	Sequence 3, Appl
C 441	13.8	72.6	1744.3	US-09-599-361-1	Sequence 1, Appl	C 514	13.8	72.6	5128.3	US-09-364-206-1	Sequence 1, Appl
C 442	13.8	72.6	1767.2	US-07-668-648-1	Sequence 1, Appl	C 515	13.8	72.6	5207.3	US-09-858-664A-1	Sequence 1, Appl
C 443	13.8	72.6	1767.2	US-08-429-998-1	Sequence 1, Appl	C 516	13.8	72.6	5207.3	US-10-274-978-1	Sequence 1, Appl
C 444	13.8	72.6	1767.2	US-08-431-333-1	Sequence 1, Appl	C 517	13.8	72.6	5207.3	US-10-274-978-3	Sequence 3, Appl
C 445	13.8	72.6	1767.2	PCT-US91-02321-1	Sequence 1, Appl	C 518	13.8	72.6	5207.3	US-10-697-263-1	Sequence 1, Appl
C 446	13.8	72.6	1779.2	US-07-668-648-3	Sequence 3, Appl	C 519	13.8	72.6	5207.3	US-10-697-263-3	Sequence 3, Appl
C 447	13.8	72.6	1779.2	US-08-429-998-3	Sequence 3, Appl	C 520	13.8	72.6	5876.3	US-10-006-611-3	Sequence 3, Appl
C 448	13.8	72.6	1779.2	US-08-431-333-3	Sequence 3, Appl	C 521	13.8	72.6	6101.3	US-09-949-016-1376	Sequence 1376, Ap
C 449	13.8	72.6	1779.2	PCT-US91-02321-3	Sequence 3, Appl	C 522	13.8	72.6	6226.2	US-08-542-363-1	Sequence 1, Appl
C 450	13.8	72.6	1820.3	US-09-949-016-1855	Sequence 1855, Ap	C 523	13.8	72.6	6226.2	US-09-100-089-1	Sequence 1, Appl
C 451	13.8	72.6	1833.3	US-09-248-796A-2933	Sequence 2933, Ap	C 524	13.8	72.6	6226.2	US-09-670-827-1	Sequence 1, Appl
C 452	13.8	72.6	1896.3	US-09-232-200-30	Sequence 30, Appl	C 525	13.8	72.6	6226.2	US-09-827-949-1	Sequence 1, Appl
C 453	13.8	72.6	1896.3	US-09-232-197-30	Sequence 30, Appl	C 526	13.8	72.6	6418.2	US-08-480-528A-11	Sequence 11, Appl
C 454	13.8	72.6	1896.3	US-09-232-201-30	Sequence 30, Appl	C 527	13.8	72.6	6418.2	PCT-US93-10520-11	Sequence 11, Appl
C 455	13.8	72.6	1896.3	US-09-232-195-30	Sequence 30, Appl	C 528	13.8	72.6	6418.2	US-08-746-111-4	Sequence 11, Appl
C 456	13.8	72.6	1952.3	US-09-919-039-101	Sequence 101, App	C 529	13.8	72.6	6585.3	US-09-949-016-67	Sequence 67, Appl
C 457	13.8	72.6	1992.3	US-09-220-132-55	Sequence 55, Appl	C 530	13.8	72.6	7017.3	US-09-949-016-47	Sequence 47, Appl
C 458	13.8	72.6	1994.3	US-09-949-016-5807	Sequence 5807, Ap	C 531	13.8	72.6	7928.3	US-09-548-473B-5	Sequence 5, Appl
C 459	13.8	72.6	2081.3	US-09-949-016-5839	Sequence 5839, Ap	C 532	13.8	72.6	8442.3	US-09-272-032-6	Sequence 6, Appl
C 460	13.8	72.6	2095.3	US-08-991-862-16	Sequence 16, Appl	C 533	13.8	72.6	9781.3	US-09-949-016-14234	Sequence 14234, A
C 461	13.8	72.6	2095.3	US-09-023-655-1098	Sequence 1098, Ap	C 534	13.8	72.6	10236.3	US-09-949-016-12492	Sequence 12492, A
C 462	13.8	72.6	2095.3	US-09-813-156-16	Sequence 16, Appl	C 535	13.8	72.6	10236.3	US-09-949-016-13859	Sequence 13859, A



C 682	13.4	70.5	601	3	US-09-949-002-4008	Sequence 4008, Ap	C 755	13.4	70.5	13782	3	US-09-949-016-12802	Sequence 12802, A
C 683	13.4	70.5	601	3	US-09-949-002-4010	Sequence 4010, Ap	C 756	13.4	70.5	14673	3	US-09-949-002-15540	Sequence 15540, A
C 684	13.4	70.5	601	3	US-09-949-002-4011	Sequence 4011, Ap	C 757	13.4	70.5	15044	3	US-09-949-002-675	Sequence 675, App
C 685	13.4	70.5	601	3	US-09-949-002-4012	Sequence 4012, Ap	C 758	13.4	70.5	15044	3	US-09-949-002-710	Sequence 710, App
C 686	13.4	70.5	601	3	US-09-949-002-4013	Sequence 4013, Ap	C 759	13.4	70.5	15164	3	US-09-949-016-11759	Sequence 11759, A
C 687	13.4	70.5	601	3	US-09-949-002-9997	Sequence 9997, Ap	C 760	13.4	70.5	15165	3	US-09-949-016-15664	Sequence 15664, A
C 688	13.4	70.5	601	3	US-09-949-002-9998	Sequence 9998, Ap	C 761	13.4	70.5	15202	3	US-08-922-635-21	Sequence 21, Appl
C 689	13.4	70.5	601	3	US-09-949-002-10395	Sequence 10395, A	C 762	13.4	70.5	15202	3	US-09-414-643-21	Sequence 21, Appl
C 690	13.4	70.5	601	3	US-09-949-002-10396	Sequence 10396, A	C 763	13.4	70.5	16382	3	US-08-718-388-8	Sequence 8, Appl
C 691	13.4	70.5	616	3	US-09-385-982-238	Sequence 238, App	C 764	13.4	70.5	16382	3	US-09-949-016-13119	Sequence 13119, A
C 692	13.4	70.5	625	3	US-09-328-111-444	Sequence 444, App	C 765	13.4	70.5	17098	3	US-09-949-016-12992	Sequence 12992, A
C 693	13.4	70.5	672	3	US-09-252-991A-13649	Sequence 13649, A	C 766	13.4	70.5	17879	3	US-09-949-016-12992	Sequence 3, Appl
C 694	13.4	70.5	700	3	US-09-735-271-720	Sequence 720, App	C 767	13.4	70.5	19025	3	US-09-849-334-3	Sequence 3, Appl
C 695	13.4	70.5	711	3	US-09-533-559-4613	Sequence 4613, Ap	C 768	13.4	70.5	19025	3	US-10-274-878-3	Sequence 3, Appl
C 696	13.4	70.5	721	3	US-09-205-258-205	Sequence 205, App	C 769	13.4	70.5	19025	3	US-10-697-266-3	Sequence 3, Appl
C 697	13.4	70.5	721	3	US-10-001-887-32	Sequence 32, Appl	C 770	13.4	70.5	24393	3	US-09-949-016-15431	Sequence 15431, A
C 698	13.4	70.5	771	3	US-08-718-388-1	Sequence 1, Appl	C 771	13.4	70.5	25175	3	US-09-949-016-16247	Sequence 16247, A
C 699	13.4	70.5	879	3	US-08-489-039A-1319	Sequence 1319, Ap	C 772	13.4	70.5	25175	3	US-09-949-016-16248	Sequence 16248, A
C 700	13.4	70.5	908	3	US-08-718-388-1	Sequence 1, Appl	C 773	13.4	70.5	25175	3	US-09-949-016-16273	Sequence 16273, A
C 701	13.4	70.5	911	3	US-09-270-391-21	Sequence 21, Appl	C 774	13.4	70.5	27412	3	US-09-949-016-17025	Sequence 17025, A
C 702	13.4	70.5	915	3	US-08-740-235-10	Sequence 10, Appl	C 775	13.4	70.5	28976	3	US-09-949-002-689	Sequence 689, App
C 703	13.4	70.5	932	3	US-09-621-976-3312	Sequence 3312, Ap	C 776	13.4	70.5	28976	3	US-09-949-002-698	Sequence 698, App
C 704	13.4	70.5	1056	3	US-09-489-039A-121	Sequence 121, App	C 777	13.4	70.5	30310	3	US-09-657-346A-96	Sequence 96, Appl
C 705	13.4	70.5	1261	3	US-09-015-188-5	Sequence 5, Appl	C 778	13.4	70.5	33769	3	US-09-544-398B-8	Sequence 8, Appl
C 706	13.4	70.5	1261	3	US-09-976-594-1090	Sequence 1090, Ap	C 779	13.4	70.5	33769	3	US-09-543-771B-8	Sequence 8, Appl
C 707	13.4	70.5	1336	3	US-08-718-388-2	Sequence 2, Appl	C 780	13.4	70.5	36759	3	US-09-949-016-12216	Sequence 12216, A
C 708	13.4	70.5	1473	3	US-09-252-991A-13784	Sequence 13784, A	C 781	13.4	70.5	36760	3	US-09-949-016-14021	Sequence 14021, A
C 709	13.4	70.5	1488	3	US-09-096-776B-3	Sequence 3, Appl	C 782	13.4	70.5	36917	3	US-09-949-016-13197	Sequence 13197, A
C 710	13.4	70.5	1488	3	US-09-923-922-3	Sequence 3, Appl	C 783	13.4	70.5	37385	3	US-09-949-016-15554	Sequence 15554, A
C 711	13.4	70.5	1500	3	US-09-252-991A-13688	Sequence 13688, A	C 784	13.4	70.5	38261	3	US-09-949-016-13802	Sequence 13802, A
C 712	13.4	70.5	1500	3	US-09-489-039A-6408	Sequence 6408, Ap	C 785	13.4	70.5	38772	3	US-09-949-016-12382	Sequence 12382, A
C 713	13.4	70.5	1500	3	US-09-434-288-5	Sequence 5, Appl	C 786	13.4	70.5	38772	3	US-09-949-016-12729	Sequence 12729, A
C 714	13.4	70.5	1896	2	US-08-138-446B-8	Sequence 8, Appl	C 787	13.4	70.5	39686	3	US-09-949-016-13633	Sequence 13633, A
C 715	13.4	70.5	1896	2	US-08-870-693-8	Sequence 8, Appl	C 788	13.4	70.5	41523	3	US-09-949-016-11932	Sequence 11932, A
C 716	13.4	70.5	1925	3	US-10-104-047-673	Sequence 673, App	C 789	13.4	70.5	41523	3	US-09-949-016-15764	Sequence 15764, A
C 717	13.4	70.5	1981	3	US-08-720-317A-3	Sequence 3, Appl	C 790	13.4	70.5	42620	3	US-09-949-016-13879	Sequence 13879, A
C 718	13.4	70.5	1992	3	US-10-104-047-211	Sequence 211, App	C 791	13.4	70.5	43726	3	US-09-949-016-17578	Sequence 17578, A
C 719	13.4	70.5	2075	3	US-09-602-543-3	Sequence 3, Appl	C 792	13.4	70.5	46805	3	US-09-949-002-585	Sequence 585, App
C 720	13.4	70.5	2099	3	US-10-104-047-1394	Sequence 1394, Ap	C 793	13.4	70.5	46805	3	US-09-949-002-842	Sequence 842, App
C 721	13.4	70.5	2190	3	US-09-015-188-1	Sequence 1, Appl	C 794	13.4	70.5	48940	3	US-09-949-016-16402	Sequence 16402, A
C 722	13.4	70.5	2372	3	US-09-057-996-15	Sequence 15, Appl	C 795	13.4	70.5	49487	3	US-09-949-016-11770	Sequence 11770, A
C 723	13.4	70.5	2534	3	US-09-096-776B-1	Sequence 1, Appl	C 796	13.4	70.5	52789	3	US-09-949-016-12130	Sequence 12130, A
C 724	13.4	70.5	2534	3	US-09-923-922-1	Sequence 1, Appl	C 797	13.4	70.5	52790	3	US-09-949-016-16641	Sequence 16641, A
C 725	13.4	70.5	2535	3	US-09-799-451-549	Sequence 549, App	C 798	13.4	70.5	53336	3	US-09-949-016-12500	Sequence 12500, A
C 726	13.4	70.5	2559	3	US-09-489-039A-173	Sequence 33, App	C 799	13.4	70.5	53337	3	US-09-949-016-16092	Sequence 16092, A
C 727	13.4	70.5	2634	3	US-10-104-047-433	Sequence 433, App	C 800	13.4	70.5	54550	3	US-10-327-189-42	Sequence 42, Appl
C 728	13.4	70.5	2988	3	US-10-104-047-1189	Sequence 1189, App	C 801	13.4	70.5	56399	3	US-09-949-002-678	Sequence 678, App
C 729	13.4	70.5	3284	2	US-08-712-241-1	Sequence 1, Appl	C 802	13.4	70.5	56399	3	US-09-949-002-839	Sequence 839, App
C 730	13.4	70.5	3537	3	US-09-799-451-564	Sequence 564, App	C 803	13.4	70.5	61461	3	US-09-949-016-16419	Sequence 16419, A
C 731	13.4	70.5	3550	3	US-09-091-725-22	Sequence 22, Appl	C 804	13.4	70.5	62804	3	US-09-949-016-12823	Sequence 12823, A
C 732	13.4	70.5	3680	3	US-10-104-047-1000	Sequence 1000, Ap	C 805	13.4	70.5	62804	3	US-09-800-960-3	Sequence 3, Appl
C 733	13.4	70.5	3692	3	US-09-575-081B-7	Sequence 7, Appl	C 806	13.4	70.5	62804	3	US-10-096-960-3	Sequence 3, Appl
C 734	13.4	70.5	4531	3	US-09-949-016-3612	Sequence 3612, Ap	C 807	13.4	70.5	67755	3	US-09-949-016-13703	Sequence 13703, A
C 735	13.4	70.5	4748	3	US-09-949-016-1943	Sequence 1943, Ap	C 808	13.4	70.5	68452	3	US-09-949-016-13305	Sequence 13305, A
C 736	13.4	70.5	4908	3	US-10-001-887-33	Sequence 33, Appl	C 809	13.4	70.5	68452	3	US-09-949-016-17417	Sequence 17417, A
C 737	13.4	70.5	5037	3	US-09-949-002-13	Sequence 13, Appl	C 810	13.4	70.5	77977	3	US-09-949-016-12249	Sequence 12249, A
C 738	13.4	70.5	5037	3	US-09-949-002-270	Sequence 270, App	C 811	13.4	70.5	77977	3	US-09-949-002-733	Sequence 733, App
C 739	13.4	70.5	5144	3	US-09-919-039-70	Sequence 70, Appl	C 812	13.4	70.5	80490	3	US-09-949-002-696	Sequence 696, App
C 740	13.4	70.5	6360	3	US-09-221-017B-835	Sequence 835, App	C 813	13.4	70.5	82048	3	US-09-949-002-579	Sequence 579, App
C 741	13.4	70.5	6719	3	US-09-740-235-36	Sequence 36, Appl	C 814	13.4	70.5	82619	3	US-09-949-016-16097	Sequence 16097, A
C 742	13.4	70.5	6752	3	US-09-949-016-879	Sequence 879, App	C 815	13.4	70.5	93971	3	US-09-949-016-16098	Sequence 16098, A
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C 746	13.4	70.5	8140	2	US-08-297-294A-1	Sequence 1, Appl	C 819	13.4	70.5	109159	3	US-09-949-016-14170	Sequence 14170, A
C 747	13.4	70.5	8617	3	US-09-949-016-14663	Sequence 14663, A	C 820	13.4	70.5	109159	3	US-09-949-016-13227	Sequence 13227, A
C 748	13.4	70.5	8618	3	US-09-949-016-14286	Sequence 14286, A	C 821	13.4	70.5	118923	3	US-09-949-016-12378	Sequence 12378, A
C 749	13.4	70.5	9382	3	US-09-949-016-15306	Sequence 15306, A	C 822	13.4	70.5	119153	3	US-09-949-016-12507	Sequence 12507, A
C 750	13.4	70.5	10259	3	US-09-949-016-13785	Sequence 13785, A	C 823	13.4	70.5	119214	3	US-09-949-016-13453	Sequence 13453, A
C 751	13.4	70.5	10300	3	US-09-949-016-636	Sequence 636, App	C 824	13.4	70.5	119801	3	US-09-949-016-15787	Sequence 15787, A
C 752	13.4	70.5	13434	3	US-09-903-540-1003	Sequence 1003, Ap	C 825	13.4	70.5	120727	3	US-09-949-016-15788	Sequence 15788, A
C 753	13.4	70.5	13434	3	US-09-902-540-1003	Sequence 1003, Ap	C 826	13.4	70.5	120727	3	US-09-949-016-15535	Sequence 15535, A
C 754	13.4	70.5	13615	3	US-09-949-016-15643	Sequence 15643, A	C 827	13.4	70.5	131332	3	US-09-949-002-730	Sequence 730, App



828	13.4	70.5	135667	3	US-09-949-016-15051	Sequence 15051, A	c 901	13.2	69.5	423	3	US-09-513-999C-28892	Sequence 28892, A
829	13.4	70.5	139282	3	US-09-949-016-15307	Sequence 15307, A	c 902	13.2	69.5	433	3	US-09-270-767-13455	Sequence 13455, A
830	13.4	70.5	139150	3	US-09-949-016-17398	Sequence 17398, A	c 903	13.2	69.5	440	3	US-09-513-999C-11320	Sequence 11320, A
831	13.4	70.5	139577	3	US-09-949-016-12879	Sequence 12879, A	c 904	13.2	69.5	443	3	US-09-615-192A-182	Sequence 182, App
832	13.4	70.5	140844	3	US-09-949-016-14199	Sequence 14199, A	c 905	13.2	69.5	443	3	US-09-169-789-182	Sequence 182, App
833	13.4	70.5	146428	3	US-09-949-016-12620	Sequence 12620, A	c 906	13.2	69.5	448	3	US-09-513-999C-794	Sequence 794, App
834	13.4	70.5	146438	3	US-09-949-016-12681	Sequence 12681, A	c 907	13.2	69.5	456	3	US-09-641-638-63	Sequence 63, Appl
835	13.4	70.5	147840	3	US-09-949-016-15236	Sequence 15236, A	c 908	13.2	69.5	456	3	US-10-170-097-63	Sequence 63, Appl
836	13.4	70.5	149971	3	US-09-949-016-13590	Sequence 13590, A	c 909	13.2	69.5	463	3	US-09-513-999C-4007	Sequence 4007, Ap
837	13.4	70.5	152486	3	US-09-949-016-12869	Sequence 12869, A	c 910	13.2	69.5	463	3	US-09-252-991A-4138	Sequence 4138, Ap
838	13.4	70.5	157866	3	US-09-949-016-12982	Sequence 12982, A	c 911	13.2	69.5	477	3	US-09-513-999C-8300	Sequence 8300, Ap
839	13.4	70.5	157866	3	US-09-949-016-12982	Sequence 12982, A	c 912	13.2	69.5	478	3	US-09-3431, Ap	Sequence 3431, Ap
840	13.4	70.5	157866	3	US-09-949-016-12984	Sequence 12984, A	c 913	13.2	69.5	479	3	US-09-621-976-13675	Sequence 13675, A
841	13.4	70.5	165651	3	US-09-949-016-13032	Sequence 13032, A	c 914	13.2	69.5	483	3	US-09-489-039A-73	Sequence 73, Appl
842	13.4	70.5	174170	3	US-09-949-016-14810	Sequence 14810, A	c 915	13.2	69.5	493	3	US-09-270-767-14010	Sequence 14010, A
843	13.4	70.5	174170	3	US-09-949-016-14811	Sequence 14811, A	c 916	13.2	69.5	498	3	US-09-621-976-13861	Sequence 13861, A
844	13.4	70.5	174318	3	US-09-949-016-11880	Sequence 11880, A	c 917	13.2	69.5	499	3	US-09-270-767-1185	Sequence 1185, Ap
845	13.4	70.5	174318	3	US-09-949-016-14812	Sequence 14812, A	c 918	13.2	69.5	499	3	US-09-270-767-16467	Sequence 16467, A
846	13.4	70.5	174318	3	US-09-949-016-14813	Sequence 14813, A	c 919	13.2	69.5	522	3	US-09-621-976-2854	Sequence 2854, Ap
847	13.4	70.5	192700	3	US-09-949-016-11820	Sequence 11820, A	c 920	13.2	69.5	539	3	US-09-513-999C-94	Sequence 94, Appl
848	13.4	70.5	192704	3	US-09-949-016-17182	Sequence 17182, A	c 921	13.2	69.5	552	3	US-10-166-653-7	Sequence 7, Appli
849	13.4	70.5	213456	3	US-09-820-007-3	Sequence 3, Appli	c 922	13.2	69.5	552	3	US-09-280-116-185	Sequence 185, App
850	13.4	70.5	221958	3	US-09-949-016-12173	Sequence 12173, A	c 923	13.2	69.5	567	3	US-09-270-767-2860	Sequence 2860, Ap
851	13.4	70.5	221958	3	US-09-949-016-15498	Sequence 15498, A	c 924	13.2	69.5	567	3	US-09-270-767-18142	Sequence 18142, Ap
852	13.4	70.5	235452	3	US-09-949-016-13675	Sequence 13675, A	c 925	13.2	69.5	588	3	US-09-270-767-361	Sequence 361, App
853	13.4	70.5	236341	3	US-09-949-016-13978	Sequence 13978, A	c 926	13.2	69.5	588	3	US-09-270-767-15643	Sequence 15643, A
854	13.4	70.5	247781	3	US-09-949-016-14193	Sequence 14193, A	c 927	13.2	69.5	601	3	US-09-902-540-4431	Sequence 4431, Ap
855	13.4	70.5	275110	3	US-09-949-016-12706	Sequence 12706, A	c 928	13.2	69.5	601	3	US-09-949-016-21801	Sequence 21801, A
856	13.4	70.5	275110	3	US-09-949-016-16070	Sequence 16070, A	c 929	13.2	69.5	601	3	US-09-949-016-21802	Sequence 21802, A
857	13.4	70.5	302604	3	US-09-949-016-14588	Sequence 14588, A	c 930	13.2	69.5	601	3	US-09-949-016-21803	Sequence 21803, A
858	13.4	70.5	302604	3	US-09-949-016-14589	Sequence 14589, A	c 931	13.2	69.5	601	3	US-09-949-016-23099	Sequence 23099, A
859	13.4	70.5	308362	3	US-09-949-016-17119	Sequence 17119, A	c 932	13.2	69.5	601	3	US-09-949-016-23100	Sequence 23100, A
860	13.4	70.5	323820	3	US-09-949-016-14139	Sequence 14139, A	c 933	13.2	69.5	601	3	US-09-949-016-24349	Sequence 24349, A
861	13.4	70.5	325791	3	US-09-768-185A-1	Sequence 1, Appli	c 934	13.2	69.5	601	3	US-09-949-016-24350	Sequence 24350, A
862	13.4	70.5	451924	3	US-09-949-016-12896	Sequence 12896, A	c 935	13.2	69.5	601	3	US-09-949-016-24738	Sequence 24738, A
863	13.4	70.5	451925	3	US-09-949-016-17305	Sequence 17305, A	c 936	13.2	69.5	601	3	US-09-949-016-26753	Sequence 26753, A
864	13.2	69.5	25	3	US-09-396-196G-44962	Sequence 44962, A	c 937	13.2	69.5	601	3	US-09-949-016-30411	Sequence 30411, A
865	13.2	69.5	39	3	US-08-857-534-7	Sequence 7, Appli	c 938	13.2	69.5	601	3	US-09-949-016-30412	Sequence 30412, A
866	13.2	69.5	39	3	US-09-613-298-7	Sequence 7, Appli	c 939	13.2	69.5	601	3	US-09-949-016-30413	Sequence 30413, A
867	13.2	69.5	39	6	PCT-US95-04971-7	Sequence 7, Appli	c 940	13.2	69.5	601	3	US-09-949-016-32366	Sequence 32366, A
868	13.2	69.5	50	3	US-10-131-827-3037	Sequence 3037, Ap	c 941	13.2	69.5	601	3	US-09-949-016-32367	Sequence 32367, A
869	13.2	69.5	150	3	US-09-513-999C-18398	Sequence 18398, A	c 942	13.2	69.5	601	3	US-09-949-016-33276	Sequence 33276, A
870	13.2	69.5	182	3	US-09-513-999C-27130	Sequence 27130, A	c 943	13.2	69.5	601	3	US-09-949-016-37517	Sequence 37517, A
871	13.2	69.5	182	3	US-09-513-999C-27130	Sequence 27130, A	c 944	13.2	69.5	601	3	US-09-949-016-41385	Sequence 41385, A
872	13.2	69.5	182	3	US-09-513-999C-27292	Sequence 27292, A	c 945	13.2	69.5	601	3	US-09-949-016-42962	Sequence 42962, A
873	13.2	69.5	185	3	US-09-513-999C-23202	Sequence 23202, A	c 946	13.2	69.5	601	3	US-09-949-016-46493	Sequence 46493, A
874	13.2	69.5	207	3	US-08-857-534-16	Sequence 16, Appl	c 947	13.2	69.5	601	3	US-09-949-016-48675	Sequence 48675, A
875	13.2	69.5	207	3	US-09-613-298-16	Sequence 16, Appl	c 948	13.2	69.5	601	3	US-09-949-016-53858	Sequence 53858, A
876	13.2	69.5	215	3	PCT-US95-04971-16	Sequence 16, Appl	c 949	13.2	69.5	601	3	US-09-949-016-55528	Sequence 55528, A
877	13.2	69.5	222	3	US-08-857-534-103	Sequence 103, App	c 950	13.2	69.5	601	3	US-09-949-016-59514	Sequence 59514, A
878	13.2	69.5	222	3	US-09-613-298-15	Sequence 15, Appl	c 951	13.2	69.5	601	3	US-09-949-016-60436	Sequence 60436, A
879	13.2	69.5	222	6	PCT-US95-04971-15	Sequence 15, Appl	c 952	13.2	69.5	601	3	US-09-949-016-60437	Sequence 60437, A
880	13.2	69.5	249	3	US-09-252-991A-14944	Sequence 14944, A	c 953	13.2	69.5	601	3	US-09-949-016-64968	Sequence 64268, A
881	13.2	69.5	264	3	US-09-513-999C-21050	Sequence 21050, A	c 954	13.2	69.5	601	3	US-09-949-016-65718	Sequence 65718, A
882	13.2	69.5	265	3	US-09-513-999C-15785	Sequence 15785, A	c 955	13.2	69.5	601	3	US-09-949-016-66115	Sequence 66115, A
883	13.2	69.5	265	3	US-09-513-999C-28314	Sequence 28314, A	c 956	13.2	69.5	601	3	US-09-949-016-66789	Sequence 66789, A
884	13.2	69.5	269	3	US-09-270-767-29432	Sequence 29432, A	c 957	13.2	69.5	601	3	US-09-949-016-68033	Sequence 68033, A
885	13.2	69.5	280	3	US-09-513-999C-16870	Sequence 16870, A	c 958	13.2	69.5	601	3	US-09-949-016-70185	Sequence 70185, A
886	13.2	69.5	285	3	US-09-513-999C-27222	Sequence 27222, A	c 959	13.2	69.5	601	3	US-09-949-016-70186	Sequence 70186, A
887	13.2	69.5	292	3	US-09-313-234A-6341	Sequence 6341, Ap	c 960	13.2	69.5	601	3	US-09-949-016-70187	Sequence 70187, A
888	13.2	69.5	301	3	US-09-513-999C-26480	Sequence 26480, A	c 961	13.2	69.5	601	3	US-09-949-016-71630	Sequence 71630, A
889	13.2	69.5	303	3	US-09-252-991A-15061	Sequence 15061, A	c 962	13.2	69.5	601	3	US-09-949-016-71631	Sequence 71631, A
890	13.2	69.5	319	3	US-09-662-402A-26	Sequence 26, Appl	c 963	13.2	69.5	601	3	US-09-949-016-71703	Sequence 71703, A
891	13.2	69.5	343	3	US-09-615-192A-181	Sequence 181, App	c 964	13.2	69.5	601	3	US-09-949-016-71704	Sequence 71704, A
892	13.2	69.5	343	3	US-09-169-789-181	Sequence 181, App	c 965	13.2	69.5	601	3	US-09-949-016-71776	Sequence 71776, A
893	13.2	69.5	368	3	US-09-513-999C-26377	Sequence 26377, A	c 966	13.2	69.5	601	3	US-09-949-016-71777	Sequence 71777, A
894	13.2	69.5	396	3	US-09-489-039A-1230	Sequence 1230, Ap	c 967	13.2	69.5	601	3	US-09-949-016-71849	Sequence 71849, A
895	13.2	69.5	396	3	US-09-640-173-3	Sequence 3, Appli	c 968	13.2	69.5	601	3	US-09-949-016-71850	Sequence 71850, A
896	13.2	69.5	396	3	US-09-713-550-3	Sequence 3, Appli	c 969	13.2	69.5	601	3	US-09-949-016-71922	Sequence 71922, A
897	13.2	69.5	396	3	US-09-825-294-3	Sequence 3, Appli	c 970	13.2	69.5	601	3	US-09-949-016-71923	Sequence 71923, A
898	13.2	69.5	396	3	US-09-970-966-3	Sequence 3, Appli	c 971	13.2	69.5	601	3	US-09-949-016-71995	Sequence 71995, A
899	13.2	69.5	404	3	US-09-621-976-13269	Sequence 13269, A	c 972	13.2	69.5	601	3	US-09-949-016-71996	Sequence 71996, A
900	13.2	69.5	421	3	US-09-621-976-385	Sequence 385, App	c 973	13.2	69.5	601	3	US-09-949-016-72068	Sequence 72068, A

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c 993 13.2 69.5 601 3 US-09-949-016-91751 Sequence 91751, A  
c 994 13.2 69.5 601 3 US-09-949-016-93827 Sequence 93827, A  
c 995 13.2 69.5 601 3 US-09-949-016-105250 Sequence 105250, A  
c 996 13.2 69.5 601 3 US-09-949-016-109458 Sequence 109458, A  
c 997 13.2 69.5 601 3 US-09-949-016-109459 Sequence 109459, A  
c 998 13.2 69.5 601 3 US-09-949-016-113509 Sequence 113509, A  
c 999 13.2 69.5 601 3 US-09-949-016-118664 Sequence 118664, A  
1000 13.2 69.5 601 3 US-09-949-016-118672 Sequence 118672, A

ALIGNMENTS

RESULT 1  
US-10-085-612A-4  
; Sequence 4, Application US/10085612A  
; Patent No. 6929912  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Vredenburgh, James  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS  
; FILE REFERENCE: DNA-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612A  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR FILING DATE: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 4  
; LENGTH: 1254  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612A-4

Query Match 91.6%; Score 17.4; DB 3; Length 1254;  
Best Local Similarity 94.7%; Pred. No. 52;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGAGC 19  
|||  
Db 690 GGGGTCTGCTGGCTGGGC 708

RESULT 2  
US-09-949-016-11863  
; Sequence 11863, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/231,498  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: Fast-SEQ for Windows Version 4.0  
; SEQ ID NO 11863  
; LENGTH: 35803  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-11863

Query Match 91.6%; Score 17.4; DB 3; Length 35803;  
Best Local Similarity 94.7%; Pred. No. 66;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGAGC 19  
|||  
Db 1598 GGGGTCTGCTGGCTGGGC 1616

RESULT 3  
US-09-949-016-12962  
; Sequence 12962, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/231,498  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: Fast-SEQ for Windows Version 4.0  
; SEQ ID NO 12962  
; LENGTH: 35804  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-12962

Query Match 91.6%; Score 17.4; DB 3; Length 35804;  
Best Local Similarity 94.7%; Pred. No. 66;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGAGC 19  
|||  
Db 1598 GGGGTCTGCTGGCTGGGC 1616

RESULT 4  
US-09-949-016-14433  
; Sequence 14433, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14433  
; LENGTH: 103934  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(103934)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14433

Query Match 91.6%; Score 17.4; DB 3; Length 103934;  
Best Local Similarity 94.7%; Pred. No. 71;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGAGC 19  
|||||  
Db 86079 GGGGTCGTCTGGCTGGGC 86097

## RESULT 5

US-09-949-016-187895  
; Sequence 187895, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 187895  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-187895

Query Match 84.2%; Score 16; DB 3; Length 601;  
Best Local Similarity 100.0%; Pred. No. 2.3e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGGCTG 16  
|||||  
Db 9 GGGGTCGTCTGGGCTG 24

## RESULT 6

US-09-949-016-17117  
; Sequence 17117, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 17117  
; LENGTH: 43267  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(43267)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-17117

Query Match 84.2%; Score 16; DB 3; Length 43267;  
Best Local Similarity 100.0%; Pred. No. 3e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGGCTG 16  
|||||  
Db 20824 GGGGTCGTCTGGGCTG 20839

## RESULT 7

US-09-513-999C-3273/c  
; Sequence 3273, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 3273  
; LENGTH: 285  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 40..285  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 140  
; OTHER INFORMATION: s=g or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 242  
; OTHER INFORMATION: k=g or t  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 255  
; OTHER INFORMATION: k=g or t  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 256  
; OTHER INFORMATION: k=g or t  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 34  
; OTHER INFORMATION: Xaa-Ser or Thr  
; FEATURE:  
; NAME/KEY: UNSURE

Query Match 83.2%; Score 15.8; DB 3; Length 601;  
Best Local Similarity 89.5%; Pred. No. 2.8e+02;  
Matches 17: Conservative 0; Mismatches 2; Indels

US-09-664-249B-2/c  
; Sequence 2, Application US/09664249B  
; Patent No. 6730477  
; GENERAL INFORMATION:  
; APPLICANT: Salceda, Susan  
; APPLICANT: Sun, Yongming  
; APPLICANT: Recipon, Herve  
; TITLE OF INVENTION: A No. 6730477el Method of Diagnosing, Monitoring, Staging,  
; TITLE OF INVENTION: Imaging and Treating Breast Cancer  
; FILE REFERENCE: DEX-0085  
; CURRENT APPLICATION NUMBER: US/09/664,249B  
; CURRENT FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCI/US99/16811  
; PRIOR FILING DATE: 1999-07-22  
; PRIOR APPLICATION NUMBER: 60/095,232  
; PRIOR FILING DATE: 1998-08-04  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: Patent In Ver. 2.1

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; SEQ ID NO 2
; LENGTH: 1066
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (729)..(813)
; OTHER INFORMATION: a, c, g or t
US-09-664-249B-2

Query Match      83.2%; Score 15.8; DB 3; Length 1066;
Best Local Similarity 89.5%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
||||| ||||| ||||| |||||
Db 530 GGGGTCTTCTTGGCTCAGC 512

RESULT 12
US-09-762-027-2/c
; Sequence 2, Application US/09762027
; Patent No. 6737040
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Sun, Yongming
; APPLICANT: Recipon, Hervé
; APPLICANT: DIADEXUS LLC
; TITLE OF INVENTION: A NOVEL METHOD OF DIAGNOSING, MONITORING, STAGING,
; FILE REFERENCE: IMAGING AND TREATING BREAST CANCER
; CURRENT APPLICATION NUMBER: US/09/762,027
; PRIOR FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 60/095,232
; PRIOR FILING DATE: 1998-08-04
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1066
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (729)..(813)
US-09-762-027-2

Query Match      83.2%; Score 15.8; DB 3; Length 1066;
Best Local Similarity 89.5%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
||||| ||||| ||||| |||||
Db 530 GGGGTCTTCTTGGCTCAGC 512

RESULT 13
US-09-620-312D-142/c
; Sequence 142, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyang
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yuning
```

```
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_PL_genes Version 1.0
; SEQ ID NO 142
; LENGTH: 1510
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (60)..(884)
US-09-620-312D-142

Query Match      83.2%; Score 15.8; DB 3; Length 1510;
Best Local Similarity 89.5%; Pred. No. 3e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTCAGC 19
||||| ||||| ||||| |||||
Db 104 GGGGTCTGTCTGGCTCAGC 86

RESULT 14
US-07-945-283-1
; Sequence 1, Application US/07945283
; Patent No. 5352596
; GENERAL INFORMATION:
; APPLICANT: Cheung, Andrew K.
; APPLICANT: Wesley, Ronald D.
; TITLE OF INVENTION: Pseudorabies Virus Deletion Mutants
; TITLE OF INVENTION: Involving The EP0 and LIT Genes
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis P. Ribando
; STREET: 1815 No. 5352596th University Street
; CITY: Peoria
; STATE: IL
; COUNTRY: USA
; ZIP: 61604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/945,283
; FILING DATE: 19920911
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Ribando, Curtis P
; REGISTRATION NUMBER: 27976
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 309-685-4011 ext.513
; TELEFAX: 309-685-4128
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8438 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
```

```

; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Pseudorabies virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 622..6495
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(1099, "g")
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(1267, "t")
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(1381, "c")
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(1566, "c")
; FEATURE:
; NAME/KEY: variation
; LOCATION: replace(7010, "g")
; US-07-945-283-1
;
Query Match      83.2%; Score 15.8; DB 2; Length 8438;
Best Local Similarity 89.5%; Pred. No. 3.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 6815 GGGGCTTTCTGCGCTGAGC 6833

RESULT 15
US-09-949-002-574
; Sequence 574, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 574
; LENGTH: 209631
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(209631)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-002-574

Query Match      83.2%; Score 15.8; DB 3; Length 209631;
Best Local Similarity 89.5%; Pred. No. 4.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 129445 GGGGTCAGTCTGCGCTGAGC 129463

RESULT 16
US-09-949-002-802
; Sequence 802, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.

```

```

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 802
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(209632)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-002-802

Query Match      83.2%; Score 15.8; DB 3; Length 209632;
Best Local Similarity 89.5%; Pred. No. 4.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 129445 GGGGTCAGTCTGCGCTGAGC 129463

RESULT 17
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      83.2%; Score 15.8; DB 3; Length 4403765;
Best Local Similarity 89.5%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGAGC 19
    ||||| ||||| |||||
Db 1885995 GGTGCTCTTTTGGCTGAGC 1886013

RESULT 18
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.

```

; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
; TITLE OF INVENTION: TUBERCULOSIS  
; FILE REFERENCE: 24366-20007.00  
; CURRENT APPLICATION NUMBER: US/09/103.840A  
; CURRENT FILING DATE: 1998-06-24  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 4411529  
; TYPE: DNA  
; ORGANISM: Mycobacterium tuberculosis  
; OTHER INFORMATION: H37RV  
US-09-103-840A-1

Query Match 83.2%; Score 15.8; DB 3; Length 4411529;  
Best Local Similarity 89.5%; Pred. No. 2.9e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGACC 19  
||| ||||| ||||| ||||| |||||  
Db 1895110 GGTGCTGTCTGGCTGACC 1895128

RESULT 19  
US-09-949-016-204195/c  
; Sequence 204195, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 204195  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-204195

Query Match 81.1%; Score 15.4; DB 3; Length 601;  
Best Local Similarity 94.1%; Pred. No. 4.4e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGA 17  
||||| ||||| ||||| ||||| |||||  
Db 516 GGGGCTGTCTGGCTGA 500

RESULT 20  
US-09-949-016-204196/c  
; Sequence 204196, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 204196  
; LENGTH: 54986

; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 204196  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-204196

Query Match 81.1%; Score 15.4; DB 3; Length 601;  
Best Local Similarity 94.1%; Pred. No. 4.4e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGA 17  
||||| ||||| ||||| ||||| |||||  
Db 549 GGGGCTGTCTGGCTGA 533

RESULT 21  
US-09-949-016-17508  
; Sequence 17508, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 17508  
; LENGTH: 28374  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-17508

Query Match 81.1%; Score 15.4; DB 3; Length 28374;  
Best Local Similarity 94.1%; Pred. No. 5.6e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGA 17  
||||| ||||| ||||| ||||| |||||  
Db 12368 GGGGCTGTCTGGCTGA 12384

RESULT 22  
US-09-949-016-16716/c  
; Sequence 16716, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 16716  
; LENGTH: 54986

```
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(54986)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16716

Query Match      81.1%; Score 15.4; DB 3; Length 54986;
Best Local Similarity 94.1%; Pred. No. 5.8e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGA 17
   |||||
Db 10677 GGGGTCTGCTGGCTGA 10661

RESULT 23
US-09-949-016-17597
; Sequence 17597, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17597
; LENGTH: 75674
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(75674)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17597

Query Match      81.1%; Score 15.4; DB 3; Length 75674;
Best Local Similarity 94.1%; Pred. No. 6e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGGTCTGCTGGCTGAG 18
   |||||
Db 65024 GGGTCTGCTGGCTGAG 65040

RESULT 24
US-09-949-016-16420/c
; Sequence 16420, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16420
; LENGTH: 234884
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(234884)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16420

Query Match      81.1%; Score 15.4; DB 3; Length 234884;
Best Local Similarity 94.1%; Pred. No. 6.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGA 17
   |||||
Db 85804 GGGGTCTGCTGGCTGA 85788

RESULT 25
US-09-949-016-56117
; Sequence 56117, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56117
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-56117

Query Match      78.9%; Score 15; DB 3; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCT 15
   |||||
Db 330 GGGGTCTGCTGGCT 344

RESULT 26
US-09-949-016-56118
; Sequence 56118, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56118
; LENGTH: 344
; TYPE: DNA
; ORGANISM: Human
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-56118
```



; SEQ ID NO 56118  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-56118

Query Match 78.9%; Score 15; DB 3; Length 601;  
Best Local Similarity 100.0%; Pred. No. 6.7e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCT 15  
Db 94 GGGGTCTGTCTGGCT 108

## RESULT 27

US-09-949-016-56119  
; Sequence 56119, Application US/09949016  
; Patent No. 6812339

## GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 56119  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-56119

Query Match 78.9%; Score 15; DB 3; Length 601;  
Best Local Similarity 100.0%; Pred. No. 6.7e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCT 15  
Db 46 GGGGTCTGTCTGGCT 60

## RESULT 28

US-09-949-016-196036  
; Sequence 196036, Application US/09949016  
; Patent No. 6812339

## GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 196036  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-196036

Query Match 78.9%; Score 15; DB 3; Length 601;  
Best Local Similarity 100.0%; Pred. No. 6.7e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGTCGTCTGGCTGA 17  
Db 232 GGTCGTCTGGCTGA 246

## RESULT 29

US-09-949-016-196037  
; Sequence 196037, Application US/09949016  
; Patent No. 6812339

## GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 196037  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-196037

Query Match 78.9%; Score 15; DB 3; Length 601;  
Best Local Similarity 100.0%; Pred. No. 6.7e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGTCGTCTGGCTGA 17  
Db 27 GGTCGTCTGGCTGA 41

## RESULT 30

US-09-023-655-1343  
; Sequence 1343, Application US/09023655  
; Patent No. 6607879

## GENERAL INFORMATION:

; APPLICANT: Cocks, Benjamin G.  
; APPLICANT: Susan G. Stuart  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
; NUMBER OF SEQUENCES: 1508  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/023,655  
; FILING DATE: HERewith  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:

```
; FILING DATE: 2000-09-08
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1343:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1325 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g3444
; US-09-023-655-1343

Query Match 78.9%; Score 15; DB 3; Length 1325;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 903 GTCTGCTGGCTGAG 917

RESULT 31
US-09-949-002-18
; Sequence 18, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 1386
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-18

Query Match 78.9%; Score 15; DB 3; Length 1386;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 964 GTCTGCTGGCTGAG 978

RESULT 32
US-09-949-002-255
; Sequence 255, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 1386
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-255

Query Match 78.9%; Score 15; DB 3; Length 1386;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 964 GTCTGCTGGCTGAG 978

RESULT 33
US-09-949-002-590
; Sequence 590, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 590
; LENGTH: 6006
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-590

Query Match 78.9%; Score 15; DB 3; Length 6006;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18
| | | | | | | | | | | | | | | |
Db 3584 GTCTGCTGGCTGAG 3598

RESULT 34
US-09-949-002-827
; Sequence 827, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 827
; LENGTH: 6007
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-827

Query Match 78.9%; Score 15; DB 3; Length 6007;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
```

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18  
|||||  
Db 3584 GTCTGCTGGCTGAG 3598

## RESULT 35

US-09-949-016-16898  
; Sequence 16898, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 16898  
; LENGTH: 6682  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-16898

Query Match 78.9%; Score 15; DB 3; Length 6682;

Best Local Similarity 100.0%; Pred. No. 7.9e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGCTGGCTGAG 18  
|||||  
Db 245 GTCTGCTGGCTGAG 259

## RESULT 36

US-09-949-016-17298  
; Sequence 17298, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 17298  
; LENGTH: 41594  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(41594)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-17298

Query Match 78.9%; Score 15; DB 3; Length 41594;

Best Local Similarity 100.0%; Pred. No. 8.8e+02;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGTCGTCTGGCTGA 17  
|||||  
Db 30410 GGTCGTCTGGCTGA 30424

## RESULT 37

US-09-536-059-1  
; Sequence 1, Application US/09536059  
; Patent No. 6544737  
; GENERAL INFORMATION:  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Cohen-Akenine, Annick  
; TITLE OF INVENTION: GENOMIC SEQUENCE OF THE purh GENE AND purh-RELATED BIALLELIC  
; FILE REFERENCE: GENSET.058AUS  
; CURRENT APPLICATION NUMBER: US/09/536,059  
; CURRENT FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: US 60/125,961  
; PRIOR FILING DATE: 1999-03-24  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent.pm  
; SEQ ID NO 1  
; LENGTH: 41684  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 1..2000  
; OTHER INFORMATION: 5'regulatory region  
; NAME/KEY: exon  
; LOCATION: 2001..2096  
; OTHER INFORMATION: exon 1  
; NAME/KEY: exon  
; LOCATION: 2433..2559  
; OTHER INFORMATION: exon 2  
; NAME/KEY: exon  
; LOCATION: 8092..8168  
; OTHER INFORMATION: exon 3  
; NAME/KEY: exon  
; LOCATION: 9600..9666  
; OTHER INFORMATION: exon 4  
; NAME/KEY: exon  
; LOCATION: 15178..15266  
; OTHER INFORMATION: exon 5  
; NAME/KEY: exon  
; LOCATION: 15924..16075  
; OTHER INFORMATION: exon 6  
; NAME/KEY: exon  
; LOCATION: 16759..16915  
; OTHER INFORMATION: exon 7  
; NAME/KEY: exon  
; LOCATION: 22309..22434  
; OTHER INFORMATION: exon 8  
; NAME/KEY: exon  
; LOCATION: 23277..23384  
; OTHER INFORMATION: exon 9  
; NAME/KEY: exon  
; LOCATION: 24841..24926  
; OTHER INFORMATION: exon 10  
; NAME/KEY: exon  
; LOCATION: 25957..26046  
; OTHER INFORMATION: exon 11  
; NAME/KEY: exon  
; LOCATION: 28700..28828  
; OTHER INFORMATION: exon 12  
; NAME/KEY: exon  
; LOCATION: 34699..34791  
; OTHER INFORMATION: exon 13  
; NAME/KEY: exon  
; LOCATION: 36579..36861

```
, OTHER INFORMATION: exon 14
, NAME/KEY: exon
, LOCATION: 39014...39169
, OTHER INFORMATION: exon 15
, NAME/KEY: exon
, LOCATION: 39456...39684
, OTHER INFORMATION: exon 16
, NAME/KEY: misc feature
, LOCATION: 39685...41684
, OTHER INFORMATION: 3'regulatory region
, NAME/KEY: allele
, LOCATION: 6491
, OTHER INFORMATION: 99-32284-107 : polymorphic base C or T
, NAME/KEY: allele
, LOCATION: 15234
, OTHER INFORMATION: 99-5602-372 : polymorphic base G or C
, NAME/KEY: allele
, LOCATION: 15868
, OTHER INFORMATION: 5-290-32 : polymorphic base C or T
, NAME/KEY: allele
, LOCATION: 16729
, OTHER INFORMATION: 99-22573-321 : polymorphic base C or T
, NAME/KEY: allele
, LOCATION: 18311
, OTHER INFORMATION: 99-22586-300 : polymorphic base G or C
, NAME/KEY: allele
, LOCATION: 18572
, OTHER INFORMATION: 99-22586-39 : polymorphic base C or T
, NAME/KEY: allele
, LOCATION: 22906
, OTHER INFORMATION: 99-5596-197 : polymorphic base A or G
, NAME/KEY: allele
, LOCATION: 23175
, OTHER INFORMATION: 5-293-76 : polymorphic base C or T
, NAME/KEY: allele
, LOCATION: 23253
, OTHER INFORMATION: 5-293-155 : polymorphic base A or G
, NAME/KEY: allele
, LOCATION: 26106
, OTHER INFORMATION: 5-294-285 : polymorphic base G or C
, NAME/KEY: allele
, LOCATION: 30464
, OTHER INFORMATION: 99-23454-317 : polymorphic base A or G
, NAME/KEY: allele
, LOCATION: 30689
, OTHER INFORMATION: 99-23454-105 : polymorphic base G or C
, NAME/KEY: allele
, LOCATION: 31250
, OTHER INFORMATION: 99-15528-333 : polymorphic base A or G
, NAME/KEY: allele
, LOCATION: 35148
, OTHER INFORMATION: 99-15798-86 : polymorphic base A or G
, NAME/KEY: allele
, LOCATION: 36801
, OTHER INFORMATION: 5-297-209 : polymorphic base A or G
, NAME/KEY: allele
, LOCATION: 37286
, OTHER INFORMATION: 99-32281-276 : polymorphic base C or T
, NAME/KEY: allele
, LOCATION: 37536
, OTHER INFORMATION: 99-32281-26 : polymorphic base C or T
, NAME/KEY: allele
, LOCATION: 39321
, OTHER INFORMATION: 5-298-376 : polymorphic base A or G
, NAME/KEY: allele
, LOCATION: 39689
, OTHER INFORMATION: 99-23460-199 : polymorphic base G or T
, NAME/KEY: primer_bind
, LOCATION: 6137...6157
, NAME/KEY: primer_bind
, LOCATION: 6577...6597
, OTHER INFORMATION: 99-32284.pu complement
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, NAME/KEY: primer_bind
, LOCATION: 14864...14882
, OTHER INFORMATION: 99-5602.pu
, NAME/KEY: primer_bind
, LOCATION: 15292...15312
, OTHER INFORMATION: 99-5602.rp complement
, NAME/KEY: primer_bind
, LOCATION: 15837...15855
, OTHER INFORMATION: 5-290.pu
, NAME/KEY: primer_bind
, LOCATION: 16249...16266
, OTHER INFORMATION: 5-290.rp complement
, NAME/KEY: primer_bind
, LOCATION: 16599...16617
, OTHER INFORMATION: 99-22573.rp
, NAME/KEY: primer_bind
, LOCATION: 17030...17049
, OTHER INFORMATION: 99-22573.pu complement
, NAME/KEY: primer_bind
, LOCATION: 18131...18150
, OTHER INFORMATION: 99-22586.rp
, NAME/KEY: primer_bind
, LOCATION: 18592...18610
, OTHER INFORMATION: 99-22586.pu complement
, NAME/KEY: primer_bind
, LOCATION: 22710...22727
, OTHER INFORMATION: 99-5596.pu
, NAME/KEY: primer_bind
, LOCATION: 23100...23118
, OTHER INFORMATION: 5-293.pu
, NAME/KEY: primer_bind
, LOCATION: 23130...23149
, OTHER INFORMATION: 99-5596.rp complement
, NAME/KEY: primer_bind
, LOCATION: 23512...23530
, OTHER INFORMATION: 5-293.rp complement
, NAME/KEY: primer_bind
, LOCATION: 25822...25840
, OTHER INFORMATION: 5-294.pu
, NAME/KEY: primer_bind
, LOCATION: 26222...26241
, OTHER INFORMATION: 5-294.rp complement
, NAME/KEY: primer_bind
, LOCATION: 30332...30352
, OTHER INFORMATION: 99-23454.rp
, NAME/KEY: primer_bind
, LOCATION: 30754...30773
, OTHER INFORMATION: 99-23454.pu complement
, NAME/KEY: primer_bind
, LOCATION: 30918...30935
, OTHER INFORMATION: 99-15528.pu
, NAME/KEY: primer_bind
, LOCATION: 31390...31408
, OTHER INFORMATION: 99-15528.rp complement
, NAME/KEY: primer_bind
, LOCATION: 34780...34799
, OTHER INFORMATION: 99-15798.rp
, NAME/KEY: primer_bind
, LOCATION: 35215...35233
, OTHER INFORMATION: 99-15798.pu complement
, NAME/KEY: primer_bind
, LOCATION: 36593...36610
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Query Match 78.9%; Score 15; DB 3; Length 41684;
Best Local Similarity 100.0%; Pred. No. 8.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 3 GGCTGCTGCTGCTGA 17
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Db 30395 GGCTGCTGCTGCTGA 30409
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RESULT 38

US-09-949-016-13375  
; Sequence 13375, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13375  
; LENGTH: 70262  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-13375

Query Match 78.9%; Score 15; DB 3; Length 70262;  
Best Local Similarity 100.0%; Pred. No. 9.1e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCT 15  
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DB 29382 GGGGTCGTCTGGCT 29396

RESULT 39  
US-09-949-016-12748  
; Sequence 12748, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12748  
; LENGTH: 70263  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-12748

Query Match 78.9%; Score 15; DB 3; Length 70263;  
Best Local Similarity 100.0%; Pred. No. 9.1e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCT 15  
|||||  
DB 29392 GGGGTCGTCTGGCT 29406

RESULT 40  
US-09-513-999C-1652/c  
; Sequence 1652, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.

; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59 US2,REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 1652  
; LENGTH: 219  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 45..218  
US-09-513-999C-1652

Query Match 77.9%; Score 14.8; DB 3; Length 219;  
Best Local Similarity 88.9%; Pred. No. 7.8e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18  
|||||  
DB 134 GGGGTCGTCTGGATCAG 117

RESULT 41  
US-09-621-976-9198  
; Sequence 9198, Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pm  
; SEQ ID NO 9198  
; LENGTH: 383  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-621-976-9198

Query Match 77.9%; Score 14.8; DB 3; Length 383;  
Best Local Similarity 88.9%; Pred. No. 8.1e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGGTCGTCTGGCTGAGC 19  
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DB 161 GGGTCGTCTGGCTGAGC 178

RESULT 42  
US-09-949-016-95996  
; Sequence 95996, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03



```
Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTGGCTGAG 18
    ||||| ||||| |||||
Db 269 GGGGTCTGTGGCTGAG 252

RESULT 47
US-09-949-016-193388/c
; Sequence 193388, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193388
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-193388

Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTGGCTGAG 18
    ||||| ||||| |||||
Db 269 GGGGTCTGTGGCTGAG 252

RESULT 48
US-09-949-002-1071
; Sequence 1071, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1071
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-1071

Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTGGCTGAG 18
    ||||| ||||| |||||
Db 331 GAGGTGTGTGGCTGAG 348
```

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RESULT 49
US-09-949-002-1072
; Sequence 1072, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1072
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-1072
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```
Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTGGCTGAG 18
    ||||| ||||| |||||
Db 271 GAGGTGTGTGGCTGAG 288
```

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RESULT 50
US-09-949-002-2054/c
; Sequence 2054, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2054
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-2054
```

```
Query Match      77.9%; Score 14.8; DB 3; Length 601;
Best Local Similarity 88.9%; Pred. No. 8.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGGTCTGTGGCTGAGC 19
    ||||| ||||| |||||
Db 180 GGGCCTGTGTGGCTGTC 163
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Search completed: January 10, 2006, 23:12:30  
Job time : 104.987 secs

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:01:19 ; Search time 363.495 Seconds  
(without alignments)  
432.243 Million cell updates/sec

Title: US-09-869-169C-12

Perfect score: 19

Sequence: 1 999gtctgtctggtgagc 19

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications\_NA\_Main:\*

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- 2: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:\*
- 3: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq:\*
- 4: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq:\*
- 6: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:\*
- 7: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq:\*
- 8: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq:\*
- 9: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq:\*
- 10: /cgn2\_6/ptodata/1/pubpna/US11\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	17.4	91.6	1254	5	US-10-085-612-4
2	17.4	91.6	2214	4	US-09-925-065A-675137
3	17.4	91.6	177531	8	US-10-484-577-660
4	16.4	86.3	288	8	US-10-425-115-134491
5	16.4	86.3	374	8	US-10-425-115-79824
6	16.4	86.3	422	3	US-09-867-701-8175
7	16.4	86.3	1680	5	US-10-128-714-7457
8	16.4	86.3	1680	5	US-10-128-714-6457
9	16.4	86.3	3763	9	US-10-450-763-5676
10	16.4	86.3	3880	5	US-10-128-714-5457
11	16.4	86.3	11102	5	US-10-205-823-334
12	16.4	86.3	11102	5	US-10-788-792-18
13	16.4	86.3	11102	10	US-11-051-454-334
14	16.4	86.3	11283	6	US-10-341-434-130
15	16.4	86.3	28562	5	US-10-087-192-211
16	16.4	86.3	87001	8	US-10-741-600-17792
17	16	84.2	644	4	US-09-925-065A-740811
18	16	84.2	2168	3	US-09-835-9768-83
19	16	84.2	3170	7	US-10-322-696-41
20	16	84.2	5239	3	US-09-835-9768-1
21	16	84.2	5261	7	US-10-276-774-971
22	16	84.2	7275	3	US-09-764-872-864
23	16	84.2	32351	7	US-10-322-696-40

25	10	US-11-036-317-195529	Sequence 195529,
25	10	US-11-036-317-314563	Sequence 314563,
446	7	US-10-437-963-26474	Sequence 26474, A
483	4	US-09-925-065A-529831	Sequence 529831,
562	4	US-09-925-065A-25140	Sequence 25140, A
600	9	US-10-972-079-17638	Sequence 17638, A
600	9	US-10-972-079-17639	Sequence 17639, A
600	9	US-10-972-079-20707	Sequence 20707, A
684	5	US-10-027-632-22845	Sequence 22845, A
684	5	US-10-027-632-22845	Sequence 22845, A
684	6	US-10-027-632-22845	Sequence 22845, A
684	6	US-10-027-632-22845	Sequence 22845, A
687	7	US-10-302-172-408	Sequence 408, App
719	5	US-10-027-632-283313	Sequence 283313,
719	6	US-10-027-632-283313	Sequence 283313,
740	5	US-10-027-632-149183	Sequence 149183,
740	6	US-10-027-632-149183	Sequence 149183,
801	3	US-09-815-242-7949	Sequence 7949, Ap
801	7	US-10-282-122A-30532	Sequence 30532, A
829	6	US-10-369-493-34166	Sequence 34166, A
1066	7	US-10-798-084-2	Sequence 2, Appli
1191	9	US-10-936-626-72	Sequence 72, Appl
1191	9	US-10-938-061-72	Sequence 72, Appl
1510	5	US-10-037-270-142	Sequence 142, App
1510	6	US-10-117-722-142	Sequence 142, App
1510	9	US-10-122-851-142	Sequence 142, App
1577	4	US-09-925-065A-546490	Sequence 546490,
2074	4	US-09-925-065A-30595	Sequence 30595, A
2074	4	US-09-925-065A-30596	Sequence 30596, A
2141	6	US-10-108-260A-1448	Sequence 1448, Ap
2468	4	US-09-925-065A-676519	Sequence 676519,
2468	4	US-09-925-065A-676520	Sequence 676520,
35623	7	US-10-322-281-356	Sequence 356, App
76670	5	US-10-087-192-2050	Sequence 2050, Ap
83946	7	US-10-450-826-8	Sequence 8, Appli
83946	8	US-10-723-860-795	Sequence 795, App
96960	8	US-10-484-577-662	Sequence 662, App
161280	5	US-10-144-649A-746	Sequence 746, App
347001	7	US-10-319-908-16	Sequence 16, Appl
382256	9	US-10-820-226-1	Sequence 1, Appli
382259	10	US-11-029-984-1	Sequence 1, Appli
392112	8	US-10-812-232-3	Sequence 3, Appli
418	4	US-09-925-065A-259668	Sequence 259668,
418	4	US-09-925-065A-259669	Sequence 259669,
528	4	US-09-925-065A-139789	Sequence 139789,
528	4	US-09-925-065A-139790	Sequence 139790,
542	5	US-10-027-632-54049	Sequence 54049, A
542	6	US-10-027-632-298693	Sequence 298693,
564	5	US-10-027-632-321954	Sequence 321954,
564	6	US-10-027-632-298693	Sequence 298693,
564	6	US-10-027-632-321954	Sequence 321954,
598	5	US-10-027-632-199557	Sequence 199557,
598	6	US-10-027-632-199557	Sequence 199557,
610	4	US-09-925-065A-649747	Sequence 649747,
610	4	US-09-925-065A-649748	Sequence 649748,
620	4	US-09-925-065A-780354	Sequence 780354,
620	4	US-09-925-065A-841549	Sequence 841549,
631	4	US-09-925-065A-120778	Sequence 120778,
631	4	US-09-925-065A-367641	Sequence 367641,
633	4	US-09-925-065A-367648	Sequence 367648,
633	4	US-09-925-065A-367648	Sequence 367648,
713	5	US-10-027-632-19208	Sequence 19208, A
713	5	US-10-027-632-19209	Sequence 19209, A
713	5	US-10-027-632-19210	Sequence 19210, A
713	6	US-10-027-632-19208	Sequence 19208, A
713	6	US-10-027-632-19209	Sequence 19209, A
713	6	US-10-027-632-19210	Sequence 19210, A
1127	4	US-09-925-065A-38776	Sequence 38776, A
1127	4	US-09-925-065A-38777	Sequence 38777, A
1176	7	US-10-425-114-32826	Sequence 32826, A
1176	8	US-10-425-115-137802	Sequence 137802,
1176	4	US-09-925-065A-67975	Sequence 67975, A

97	15.4	81.1	1792	4	US-09-925-065A-717091	Sequence 717091,	c 170	15	78.9	1754382	9	US-10-501-282-6651	Sequence 6651, Ap
c 98	15.4	81.1	14241	6	US-10-017-161-1989	Sequence 1989, Ap	c 171	14.8	77.9	25	7	US-10-719-956-132460	Sequence 132460,
c 99	15.4	81.1	14425	6	US-10-232-798-1637	Sequence 1637, Ap	c 172	14.8	77.9	25	10	US-11-036-317-267199	Sequence 267199,
c 100	15.4	81.1	16270	6	US-10-017-161-2251	Sequence 2251, Ap	c 173	14.8	77.9	36	8	US-10-706-691-30	Sequence 30, Appl
c 101	15.4	81.1	16270	6	US-10-232-798-1897	Sequence 1897, Ap	c 174	14.8	77.9	36	8	US-10-706-691-31	Sequence 31, Appl
c 102	15.4	81.1	53954	5	US-10-087-192-262	Sequence 262, App	c 175	14.8	77.9	201	7	US-10-741-601-5317	Sequence 5317, Ap
c 103	15.4	81.1	84105	7	US-10-741-601-5637	Sequence 5637, Ap	c 176	14.8	77.9	201	7	US-10-741-601-5324	Sequence 5324, Ap
c 104	15	78.9	25	8	US-10-719-900-122815	Sequence 122815,	c 177	14.8	77.9	201	7	US-10-741-601-5327	Sequence 5327, Ap
c 105	15	78.9	360	9	US-10-501-282-1203	Sequence 1203, Ap	c 178	14.8	77.9	201	7	US-10-741-601-5332	Sequence 5332, Ap
c 106	15	78.9	457	3	US-09-796-692-9400	Sequence 9400, Ap	c 179	14.8	77.9	201	7	US-10-741-601-20274	Sequence 20274, A
c 107	15	78.9	457	3	US-10-040-862-9400	Sequence 9400, Ap	c 180	14.8	77.9	201	7	US-10-741-601-20289	Sequence 20289, A
c 108	15	78.9	457	6	US-10-057-4758-9400	Sequence 9400, Ap	c 181	14.8	77.9	201	7	US-10-741-601-20409	Sequence 20409, A
c 109	15	78.9	457	6	US-10-154-884B-9400	Sequence 9400, Ap	c 182	14.8	77.9	201	7	US-10-741-601-20411	Sequence 20411, A
c 110	15	78.9	457	8	US-10-764-324-9400	Sequence 9400, Ap	c 183	14.8	77.9	201	8	US-10-741-600-16224	Sequence 16224, A
c 111	15	78.9	483	9	US-10-501-282-1201	Sequence 1201, Ap	c 184	14.8	77.9	201	8	US-10-741-600-16231	Sequence 16231, A
c 112	15	78.9	588	5	US-10-027-632-95731	Sequence 95731, A	c 185	14.8	77.9	201	8	US-10-741-600-16234	Sequence 16234, A
c 113	15	78.9	588	5	US-10-027-632-305919	Sequence 305919,	c 186	14.8	77.9	201	8	US-10-741-600-16239	Sequence 16239, A
c 114	15	78.9	588	6	US-10-027-632-95731	Sequence 95731, A	c 187	14.8	77.9	201	8	US-10-741-600-13951	Sequence 13951, A
c 115	15	78.9	588	6	US-10-027-632-305919	Sequence 305919,	c 188	14.8	77.9	201	8	US-10-741-600-55757	Sequence 55757, A
c 116	15	78.9	588	4	US-09-925-065A-874512	Sequence 874512,	c 189	14.8	77.9	201	8	US-10-741-600-55772	Sequence 55772, A
c 117	15	78.9	595	4	US-09-925-065A-874512	Sequence 874512,	c 190	14.8	77.9	201	8	US-10-741-600-55892	Sequence 55892, A
c 118	15	78.9	600	9	US-10-027-079-23191	Sequence 23191, A	c 191	14.8	77.9	201	8	US-10-741-600-55894	Sequence 55894, A
c 119	15	78.9	604	4	US-09-925-065A-190851	Sequence 190851,	c 192	14.8	77.9	257	7	US-10-702-075-396	Sequence 396, App
c 120	15	78.9	631	4	US-09-925-065A-120779	Sequence 120779,	c 193	14.8	77.9	263	8	US-09-732-627A-3181	Sequence 3181, Ap
c 121	15	78.9	639	9	US-10-928-465-16	Sequence 16, Appl	c 194	14.8	77.9	314	3	US-09-960-352-6797	Sequence 6797, Ap
c 122	15	78.9	717	5	US-10-027-632-20520	Sequence 20520, A	c 195	14.8	77.9	341	3	US-09-960-352-6797	Sequence 6797, Ap
c 123	15	78.9	717	5	US-10-027-632-20521	Sequence 20521, A	c 196	14.8	77.9	344	3	US-09-960-352-6747	Sequence 6747, Ap
c 124	15	78.9	717	5	US-10-027-632-20522	Sequence 20522, A	c 197	14.8	77.9	424	3	US-09-864-761-6038	Sequence 6038, Ap
c 125	15	78.9	717	6	US-10-027-632-20520	Sequence 20520, A	c 198	14.8	77.9	442	3	US-09-918-995-2761	Sequence 2761, Ap
c 126	15	78.9	717	6	US-10-027-632-20521	Sequence 20521, A	c 199	14.8	77.9	442	3	US-09-925-065A-543675	Sequence 543675,
c 127	15	78.9	717	6	US-10-027-632-20522	Sequence 20522, A	c 200	14.8	77.9	460	4	US-09-925-065A-535584	Sequence 535584,
c 128	15	78.9	832	5	US-10-027-632-155426	Sequence 155426,	c 201	14.8	77.9	460	4	US-09-918-995-10811	Sequence 10811, A
c 129	15	78.9	832	5	US-10-027-632-155426	Sequence 155426,	c 202	14.8	77.9	465	3	US-09-918-995-32786	Sequence 32786, A
c 130	15	78.9	834	5	US-10-027-632-150849	Sequence 150849,	c 203	14.8	77.9	526	4	US-09-925-065A-540914	Sequence 540914,
c 131	15	78.9	834	6	US-10-027-632-150849	Sequence 150849,	c 204	14.8	77.9	527	4	US-09-925-065A-644980	Sequence 644980,
c 132	15	78.9	964	5	US-10-027-632-154319	Sequence 154319,	c 205	14.8	77.9	531	9	US-10-450-763-19990	Sequence 19990, A
c 133	15	78.9	964	5	US-10-027-632-154319	Sequence 154319,	c 206	14.8	77.9	534	4	US-09-925-065A-645366	Sequence 645366,
c 134	15	78.9	964	6	US-10-027-632-154318	Sequence 154318,	c 207	14.8	77.9	535	4	US-09-925-065A-644076	Sequence 644076,
c 135	15	78.9	964	6	US-10-027-632-154319	Sequence 154319,	c 208	14.8	77.9	535	4	US-10-029-386-3231	Sequence 3231, Ap
c 136	15	78.9	1065	9	US-10-501-282-1209	Sequence 1209, Ap	c 209	14.8	77.9	532	6	US-09-925-065A-432720	Sequence 432720,
c 137	15	78.9	1065	9	US-10-501-282-1211	Sequence 1211, Ap	c 210	14.8	77.9	565	4	US-09-925-065A-596064	Sequence 596064,
c 138	15	78.9	1325	5	US-10-272-411-5	Sequence 5, Appl	c 211	14.8	77.9	565	4	US-10-027-632-287822	Sequence 287822,
c 139	15	78.9	1325	5	US-10-218-547-1	Sequence 1, Appl	c 212	14.8	77.9	568	5	US-10-027-632-287822	Sequence 287822,
c 140	15	78.9	1325	5	US-10-272-328A-5	Sequence 5, Appl	c 213	14.8	77.9	568	6	US-10-027-632-287822	Sequence 287822,
c 141	15	78.9	1325	6	US-10-310-793-7	Sequence 7, Appl	c 214	14.8	77.9	571	4	US-09-925-065A-538384	Sequence 538384,
c 142	15	78.9	1325	7	US-10-202-062-1	Sequence 1, Appl	c 215	14.8	77.9	580	4	US-09-925-065A-798016	Sequence 798016,
c 143	15	78.9	1325	7	US-10-641-643-1343	Sequence 1343, Ap	c 216	14.8	77.9	589	4	US-09-925-065A-799140	Sequence 799140,
c 144	15	78.9	1325	10	US-11-028-780-1	Sequence 1, Appl	c 217	14.8	77.9	596	5	US-10-027-632-291735	Sequence 291735,
c 145	15	78.9	1386	6	US-10-101-510-145	Sequence 145, App	c 218	14.8	77.9	596	5	US-10-027-632-291736	Sequence 291736,
c 146	15	78.9	1386	6	US-10-159-563-362	Sequence 362, App	c 219	14.8	77.9	596	5	US-10-027-632-291737	Sequence 291737,
c 147	15	78.9	1386	7	US-10-283-975A-135	Sequence 135, App	c 220	14.8	77.9	596	6	US-10-027-632-291735	Sequence 291735,
c 148	15	78.9	1386	8	US-10-278-698-13	Sequence 13, Appl	c 221	14.8	77.9	596	6	US-10-027-632-291736	Sequence 291736,
c 149	15	78.9	1386	8	US-10-278-698-14	Sequence 14, Appl	c 222	14.8	77.9	596	6	US-10-027-632-291737	Sequence 291737,
c 150	15	78.9	1386	8	US-10-278-698-527	Sequence 527, App	c 223	14.8	77.9	599	9	US-10-972-079-25203	Sequence 25203, A
c 151	15	78.9	1386	8	US-10-278-698-528	Sequence 528, App	c 224	14.8	77.9	599	9	US-10-972-079-74434	Sequence 74434, A
c 152	15	78.9	1386	9	US-10-928-465-17	Sequence 17, Appl	c 225	14.8	77.9	600	9	US-10-956-157-10295	Sequence 10295, A
c 153	15	78.9	1416	8	US-10-741-600-820	Sequence 820, App	c 226	14.8	77.9	600	9	US-10-972-079-3284	Sequence 3284, Ap
c 154	15	78.9	1502	8	US-10-741-600-819	Sequence 819, App	c 227	14.8	77.9	600	9	US-10-972-079-3285	Sequence 3285, Ap
c 155	15	78.9	1861	8	US-10-492-113-8	Sequence 8, Appl	c 228	14.8	77.9	600	9	US-10-972-079-74436	Sequence 74436, A
c 156	15	78.9	1933	4	US-09-925-065A-718531	Sequence 718531,	c 229	14.8	77.9	600	9	US-10-972-079-74437	Sequence 74437, A
c 157	15	78.9	1933	4	US-09-925-065A-718532	Sequence 718532,	c 230	14.8	77.9	600	9	US-10-972-079-74437	Sequence 74437, A
c 158	15	78.9	1933	4	US-09-925-065A-718533	Sequence 718533,	c 231	14.8	77.9	600	9	US-09-925-065A-597903	Sequence 597903,
c 159	15	78.9	2025	9	US-10-450-763-16927	Sequence 16927, A	c 232	14.8	77.9	606	4	US-09-925-065A-792819	Sequence 792819,
c 160	15	78.9	2405	7	US-10-206-618-10	Sequence 10, Appl	c 233	14.8	77.9	616	4	US-09-925-065A-792820	Sequence 792820,
c 161	15	78.9	2405	7	US-10-206-618-11	Sequence 11, Appl	c 234	14.8	77.9	616	4	US-09-925-065A-633643	Sequence 633643,
c 162	15	78.9	5033	6	US-10-369-300-14	Sequence 14, Appl	c 235	14.8	77.9	621	4	US-09-925-065A-633644	Sequence 633644,
c 163	15	78.9	12123	7	US-10-206-618-1	Sequence 1, Appl	c 236	14.8	77.9	621	4	US-09-925-065A-109462	Sequence 109462,
c 164	15	78.9	14036	8	US-10-741-600-17806	Sequence 17806, A	c 237	14.8	77.9	631	4	US-09-925-065A-943835	Sequence 943835,
c 165	15	78.9	14769	8	US-10-741-600-18012	Sequence 18012, A	c 238	14.8	77.9	638	4	US-09-925-065A-887567	Sequence 887567,
c 166	15	78.9	22173	7	US-10-322-696-28	Sequence 28, Appl	c 239	14.8	77.9	648	4	US-10-425-115-141022	Sequence 141022,
c 167	15	78.9	41299	8	US-10-741-600-17833	Sequence 17833, A	c 240	14.8	77.9	655	8	US-10-027-632-149278	Sequence 149278,
c 168	15	78.9	41684	6	US-10-376-893-1	Sequence 1, Appl	c 241	14.8	77.9	667	5	US-10-027-632-149278	Sequence 149278,
c 169	15	78.9	60153	5	US-10-222-334-7	Sequence 7, Appl	c 242	14.8	77.9	667	6	US-10-027-632-149278	Sequence 149278,

C 243	14.8	77.9	684	5	US-10-027-632-106507	Sequence 106507,	C 316	14.8	77.9	1303	3	US-09-822-830A-621	Sequence 621, App
C 244	14.8	77.9	684	5	US-10-027-632-137672	Sequence 137672,	C 317	14.8	77.9	1337	5	US-10-027-632-97139	Sequence 97139, A
C 245	14.8	77.9	684	5	US-10-027-632-106507	Sequence 106507,	C 318	14.8	77.9	1337	5	US-10-027-632-97140	Sequence 97140, A
C 246	14.8	77.9	684	5	US-10-027-632-137672	Sequence 137672,	C 319	14.8	77.9	1337	6	US-10-027-632-97139	Sequence 97139, A
C 247	14.8	77.9	714	9	US-10-617-320-2050	Sequence 2050, Ap	C 320	14.8	77.9	1337	6	US-10-027-632-97140	Sequence 97140, A
C 248	14.8	77.9	718	5	US-10-027-632-150309	Sequence 150309,	C 321	14.8	77.9	1390	3	US-09-765-205-39	Sequence 39, Appl
C 249	14.8	77.9	718	5	US-10-027-632-150309	Sequence 150309,	C 322	14.8	77.9	1390	3	US-10-347-669-39	Sequence 39, Appl
C 250	14.8	77.9	719	5	US-10-027-632-25812	Sequence 25812, A	C 323	14.8	77.9	1395	4	US-09-925-065A-89611	Sequence 89611, A
C 251	14.8	77.9	719	6	US-10-027-632-25812	Sequence 25812, A	C 324	14.8	77.9	2024	8	US-10-706-691-40	Sequence 40, Appl
C 252	14.8	77.9	720	8	US-10-706-691-19	Sequence 19, Appl	C 325	14.8	77.9	2045	5	US-10-027-632-99699	Sequence 99699, A
C 253	14.8	77.9	724	5	US-10-027-632-22965	Sequence 22965, A	C 326	14.8	77.9	2045	6	US-10-027-632-99699	Sequence 99699, A
C 254	14.8	77.9	724	6	US-10-027-632-22965	Sequence 22965, A	C 327	14.8	77.9	2128	7	US-10-437-963-67968	Sequence 67968, A
C 255	14.8	77.9	725	5	US-10-027-632-148281	Sequence 148281, A	C 328	14.8	77.9	2242	4	US-09-925-065A-777903	Sequence 777903, A
C 256	14.8	77.9	732	5	US-10-027-632-148282	Sequence 148282,	C 329	14.8	77.9	2247	3	US-09-768-826-11	Sequence 11, Appl
C 257	14.8	77.9	732	5	US-10-027-632-148283	Sequence 148283,	C 330	14.8	77.9	2247	8	US-10-874-484-11	Sequence 11, Appl
C 258	14.8	77.9	732	5	US-10-027-632-148284	Sequence 148284,	C 331	14.8	77.9	2271	5	US-10-027-632-110785	Sequence 110785,
C 259	14.8	77.9	732	6	US-10-027-632-148284	Sequence 148284,	C 332	14.8	77.9	2271	5	US-10-027-632-110786	Sequence 110786,
C 260	14.8	77.9	732	6	US-10-027-632-148282	Sequence 148282,	C 333	14.8	77.9	2271	6	US-10-027-632-110785	Sequence 110785,
C 261	14.8	77.9	732	6	US-10-027-632-148284	Sequence 148284,	C 334	14.8	77.9	2271	6	US-10-027-632-110786	Sequence 110786,
C 262	14.8	77.9	732	6	US-10-027-632-148284	Sequence 148284,	C 335	14.8	77.9	2320	6	US-10-108-260A-1298	Sequence 1298, Ap
C 263	14.8	77.9	747	9	US-10-450-763-3178	Sequence 3178, Ap	C 336	14.8	77.9	2326	6	US-10-388-934-581	Sequence 581, App
C 264	14.8	77.9	754	5	US-10-027-632-130335	Sequence 130335,	C 337	14.8	77.9	2642	6	US-10-104-047-158	Sequence 158, App
C 265	14.8	77.9	754	6	US-10-027-632-130335	Sequence 130335,	C 338	14.8	77.9	2644	3	US-09-768-826-12	Sequence 12, Appl
C 266	14.8	77.9	754	6	US-10-472-928-4863	Sequence 130335,	C 339	14.8	77.9	2644	3	US-10-874-484-12	Sequence 12, Appl
C 267	14.8	77.9	823	7	US-10-112-944-190	Sequence 1863, Ap	C 340	14.8	77.9	2778	9	US-10-450-763-2792	Sequence 2792, Ap
C 268	14.8	77.9	840	6	US-10-032-189-57	Sequence 190, App	C 341	14.8	77.9	2778	9	US-10-450-763-2792	Sequence 2792, Ap
C 269	14.8	77.9	860	6	US-10-706-691-42	Sequence 57, Appl	C 342	14.8	77.9	2784	8	US-10-425-115-150543	Sequence 150543,
C 270	14.8	77.9	861	4	US-09-925-065A-8170	Sequence 42, Appl	C 343	14.8	77.9	2822	8	US-10-357-930-30358	Sequence 30358, A
C 271	14.8	77.9	861	4	US-09-925-065A-8171	Sequence 8170, Ap	C 344	14.8	77.9	3030	7	US-09-972-211-43	Sequence 43, Appl
C 272	14.8	77.9	880	5	US-10-027-632-130336	Sequence 8171, Ap	C 345	14.8	77.9	3030	7	US-10-096-625-43	Sequence 43, Appl
C 273	14.8	77.9	890	5	US-10-027-632-130336	Sequence 130336,	C 346	14.8	77.9	3050	9	US-10-956-157-5060	Sequence 5060, Ap
C 274	14.8	77.9	890	6	US-10-027-632-144766	Sequence 144766,	C 347	14.8	77.9	3058	6	US-10-974-749-271	Sequence 271, App
C 275	14.8	77.9	890	6	US-10-027-632-144766	Sequence 144766,	C 348	14.8	77.9	3191	7	US-10-741-601-197	Sequence 197, App
C 276	14.8	77.9	912	7	US-10-767-701-11561	Sequence 11561, A	C 349	14.8	77.9	3191	7	US-10-719-993-274	Sequence 274, App
C 277	14.8	77.9	930	6	US-10-029-386-20386	Sequence 20386, A	C 350	14.8	77.9	3372	3	US-09-888-615-18	Sequence 18, Appl
C 278	14.8	77.9	930	6	US-10-029-386-20386	Sequence 20386, A	C 351	14.8	77.9	3432	3	US-09-972-211-41	Sequence 41, Appl
C 279	14.8	77.9	963	4	US-09-925-065A-10818	Sequence 24179, A	C 352	14.8	77.9	3432	3	US-10-096-625-41	Sequence 41, Appl
C 280	14.8	77.9	963	4	US-09-925-065A-10819	Sequence 10818, A	C 353	14.8	77.9	3432	9	US-10-433-757-29	Sequence 29, Appl
C 281	14.8	77.9	1003	3	US-09-974-300-44	Sequence 10819, A	C 354	14.8	77.9	3583	7	US-10-236-392-209	Sequence 209, App
C 282	14.8	77.9	1034	7	US-10-236-392-205	Sequence 44, Appl	C 355	14.8	77.9	3591	7	US-10-741-601-196	Sequence 196, App
C 283	14.8	77.9	1075	8	US-10-425-115-32154	Sequence 20528, A	C 356	14.8	77.9	3591	7	US-10-719-993-273	Sequence 273, App
C 284	14.8	77.9	1081	7	US-10-741-601-108	Sequence 32154, A	C 357	14.8	77.9	3595	8	US-10-236-392-203	Sequence 203, App
C 285	14.8	77.9	1216	4	US-09-925-065A-20525	Sequence 108, App	C 358	14.8	77.9	3649	5	US-10-097-340-323	Sequence 329, App
C 286	14.8	77.9	1216	4	US-09-925-065A-20526	Sequence 20525, A	C 359	14.8	77.9	3649	10	US-11-050-926-329	Sequence 329, App
C 287	14.8	77.9	1216	4	US-09-925-065A-20527	Sequence 20526, A	C 360	14.8	77.9	3794	10	US-10-275-505-20	Sequence 20, Appl
C 288	14.8	77.9	1216	4	US-09-925-065A-20528	Sequence 20527, A	C 361	14.8	77.9	3794	10	US-11-140-224-20	Sequence 1520, Appl
C 289	14.8	77.9	1216	4	US-09-925-065A-20529	Sequence 20528, A	C 362	14.8	77.9	4080	7	US-10-172-118-1520	Sequence 1520, Ap
C 290	14.8	77.9	1216	4	US-09-925-065A-20530	Sequence 20529, A	C 363	14.8	77.9	4080	9	US-10-342-887-1520	Sequence 1520, Ap
C 291	14.8	77.9	1222	7	US-10-112-944-662	Sequence 20530, A	C 364	14.8	77.9	4080	9	US-10-756-149-1669	Sequence 1669, Ap
C 292	14.8	77.9	1224	4	US-09-925-065A-82818	Sequence 662, App	C 365	14.8	77.9	4236	10	US-11-097-143-13745	Sequence 13745, A
C 293	14.8	77.9	1224	4	US-09-925-065A-82819	Sequence 82818, A	C 366	14.8	77.9	4236	7	US-10-437-963-97614	Sequence 97614, A
C 294	14.8	77.9	1251	8	US-10-706-691-15	Sequence 15, Appl	C 367	14.8	77.9	4560	8	US-10-723-860-6203	Sequence 6203, Ap
C 295	14.8	77.9	1284	4	US-09-925-065A-77018	Sequence 77018, A	C 368	14.8	77.9	5997	10	US-11-097-143-37678	Sequence 37678, A
C 296	14.8	77.9	1284	4	US-09-925-065A-77019	Sequence 77019, A	C 369	14.8	77.9	6016	9	US-10-741-601-203	Sequence 203, App
C 297	14.8	77.9	1284	4	US-09-925-065A-77020	Sequence 77020, A	C 370	14.8	77.9	6189	9	US-10-450-763-22099	Sequence 22099, A
C 298	14.8	77.9	1284	4	US-09-925-065A-77021	Sequence 77021, A	C 371	14.8	77.9	6189	9	US-10-741-601-202	Sequence 202, App
C 299	14.8	77.9	1284	4	US-09-925-065A-77022	Sequence 77022, A	C 372	14.8	77.9	6782	10	US-11-097-143-13744	Sequence 13744, A
C 300	14.8	77.9	1300	7	US-10-302-172-403	Sequence 77022, A	C 373	14.8	77.9	6909	3	US-09-880-107-2275	Sequence 2275, App
C 301	14.8	77.9	1303	7	US-10-425-114-4266	Sequence 403, App	C 374	14.8	77.9	6914	9	US-10-956-157-355	Sequence 355, App
C 302	14.8	77.9	1419	7	US-10-432-103-10	Sequence 4266, Ap	C 375	14.8	77.9	6914	9	US-10-115-563-13	Sequence 13, Appl
C 303	14.8	77.9	1450	5	US-10-006-542B-4	Sequence 10, Appl	C 376	14.8	77.9	6925	5	US-10-115-563-26	Sequence 26, Appl
C 304	14.8	77.9	1484	7	US-10-437-963-65131	Sequence 4, Appl	C 377	14.8	77.9	7009	7	US-10-741-601-258	Sequence 258, App
C 305	14.8	77.9	1494	6	US-10-203-319A-54	Sequence 65131, A	C 378	14.8	77.9	7009	9	US-10-741-600-733	Sequence 733, App
C 306	14.8	77.9	1515	10	US-11-028-376-7	Sequence 54, Appl	C 379	14.8	77.9	7009	8	US-10-737-318-81	Sequence 81, Appl
C 307	14.8	77.9	1525	3	US-09-981-353-168	Sequence 7, Appli	C 380	14.8	77.9	7862	6	US-10-723-860-4981	Sequence 4981, Ap
C 308	14.8	77.9	1576	8	US-10-739-930-5012	Sequence 168, App	C 381	14.8	77.9	9705	6	US-10-093-463-167	Sequence 167, App
C 309	14.8	77.9	1584	7	US-10-302-172-927	Sequence 5012, Ap	C 382	14.8	77.9	9802	5	US-10-114-087-13	Sequence 13, Appl
C 310	14.8	77.9	1656	5	US-10-027-632-97643	Sequence 927, App	C 383	14.8	77.9	9802	6	US-10-429-802-7	Sequence 7, Appli
C 311	14.8	77.9	1656	6	US-10-027-632-97643	Sequence 97643, A	C 384	14.8	77.9	10254	7	US-08-961-527-29	Sequence 29, Appl
C 312	14.8	77.9	1686	3	US-09-775-046-14	Sequence 97643, A	C 385	14.8	77.9	10370	9	US-10-158-844-29	Sequence 29, Appl
C 313	14.8	77.9	1733	6	US-10-094-749-39	Sequence 14, Appl	C 386	14.8	77.9	10370	9	US-10-737-082-7	Sequence 7, Appli
C 314	14.8	77.9	1801	8	US-10-425-115-141024	Sequence 39, Appl	C 387	14.8	77.9	10370	9	US-10-765-790-7	Sequence 7, Appli
C 315	14.8	77.9	1809	7	US-10-437-963-8634	Sequence 141024,	C 388	14.8	77.9	12313	6	US-10-223-646-4	Sequence 4, Appl
						Sequence 8634, Ap				13886	7	US-10-672-764A-68	Sequence 68, Appl

C 389	14.8	77.9	16389	3	US-09-741-154-3	Sequence 3, Appli	C 462	14.4	75.8	157	7	US-10-430-201-1211	Sequence 1211, Ap
C 390	14.8	77.9	16389	6	US-10-187-900-3	Sequence 3, Appli	463	14.4	75.8	201	8	US-10-719-993-46623	Sequence 46623, A
C 391	14.8	77.9	17659	7	US-10-741-601-5645	Sequence 5645, Ap	C 464	14.4	75.8	201	8	US-10-741-600-59405	Sequence 59405, A
C 392	14.8	77.9	18800	7	US-10-741-601-5748	Sequence 5748, Ap	465	14.4	75.8	244	8	US-10-425-115-124926	Sequence 124926,
C 393	14.8	77.9	18800	8	US-10-719-993-6971	Sequence 6971, Ap	C 466	14.4	75.8	328	8	US-10-425-115-153982	Sequence 153982,
C 394	14.8	77.9	26225	3	US-09-764-869-1276	Sequence 1276, Ap	C 467	14.4	75.8	338	7	US-10-469-285-827	Sequence 827, App
C 395	14.8	77.9	26225	3	US-09-984-429-448	Sequence 448, App	468	14.4	75.8	360	7	US-10-767-701-15118	Sequence 15118, A
C 396	14.8	77.9	26225	5	US-10-091-504-1276	Sequence 1276, Ap	469	14.4	75.8	380	4	US-09-925-065A-600984	Sequence 600984,
C 397	14.8	77.9	26225	6	US-10-227-577-1276	Sequence 1276, Ap	470	14.4	75.8	381	9	US-10-972-079-9	Sequence 9, Appli
C 398	14.8	77.9	27246	7	US-10-741-601-5676	Sequence 5676, Ap	471	14.4	75.8	398	7	US-10-175-184A-28	Sequence 28, Appli
C 399	14.8	77.9	27246	8	US-10-719-993-6851	Sequence 6851, Ap	C 472	14.4	75.8	403	4	US-09-925-065A-181410	Sequence 181410,
C 400	14.8	77.9	32816	3	US-09-729-094-3	Sequence 3, Appli	C 473	14.4	75.8	403	4	US-09-925-065A-181411	Sequence 181411,
C 401	14.8	77.9	32816	6	US-10-435-631-3	Sequence 3, Appli	474	14.4	75.8	413	6	US-10-062-674-1582	Sequence 1582, Ap
C 402	14.8	77.9	36110	7	US-10-741-601-5675	Sequence 5675, Ap	475	14.4	75.8	422	7	US-10-424-599-134554	Sequence 134554,
C 403	14.8	77.9	36110	7	US-10-719-993-6850	Sequence 6850, Ap	476	14.4	75.8	424	9	US-10-972-079-8	Sequence 8, Appli
C 404	14.8	77.9	39768	5	US-10-087-192-1030	Sequence 1030, Ap	477	14.4	75.8	431	3	US-09-983-965-2504	Sequence 7, Appli
C 405	14.8	77.9	43981	6	US-10-292-798-1243	Sequence 1243, Ap	C 478	14.4	75.8	432	9	US-10-972-079-7	Sequence 7, Appli
C 406	14.8	77.9	47115	7	US-10-052-482-133	Sequence 133, App	C 479	14.4	75.8	434	3	US-09-918-995-8665	Sequence 8665, Ap
C 407	14.8	77.9	52772	5	US-10-719-993-6855	Sequence 6855, Ap	480	14.4	75.8	444	4	US-09-925-065A-573795	Sequence 573795,
C 408	14.8	77.9	68255	5	US-10-087-192-772	Sequence 772, App	481	14.4	75.8	444	5	US-10-027-632-44104	Sequence 44104, A
C 409	14.8	77.9	71132	5	US-10-087-192-1867	Sequence 1867, Ap	482	14.4	75.8	449	5	US-10-027-632-69699	Sequence 69699, A
C 410	14.8	77.9	72332	7	US-10-052-482-58	Sequence 58, Appl	483	14.4	75.8	449	6	US-10-027-632-294534	Sequence 294534,
C 411	14.8	77.9	72409	9	US-10-737-318-80	Sequence 80, Appl	484	14.4	75.8	449	6	US-10-027-632-69699	Sequence 69699, A
C 412	14.8	77.9	74665	8	US-10-719-993-6854	Sequence 6854, Ap	485	14.4	75.8	449	6	US-10-027-632-294534	Sequence 294534,
C 413	14.8	77.9	76150	6	US-10-085-117-157	Sequence 157, App	486	14.4	75.8	449	6	US-10-027-632-69699	Sequence 69699, A
C 414	14.8	77.9	80032	8	US-10-741-600-17727	Sequence 1727, A	C 487	14.4	75.8	475	5	US-10-027-632-72723	Sequence 72723, A
C 415	14.8	77.9	80161	7	US-10-329-148A-1	Sequence 1, Appli	C 488	14.4	75.8	475	5	US-10-027-632-108715	Sequence 108715,
C 416	14.8	77.9	81684	7	US-10-322-281-673	Sequence 673, App	C 489	14.4	75.8	475	6	US-10-027-632-72723	Sequence 72723, A
C 417	14.8	77.9	83222	8	US-10-719-993-6898	Sequence 6898, Ap	C 490	14.4	75.8	475	6	US-10-027-632-108715	Sequence 108715,
C 418	14.8	77.9	84409	7	US-10-741-601-5696	Sequence 5696, Ap	C 491	14.4	75.8	478	4	US-09-925-065A-219275	Sequence 219275,
C 419	14.8	77.9	84409	5	US-10-741-600-17771	Sequence 17771, A	492	14.4	75.8	478	4	US-09-925-065A-219276	Sequence 219276,
C 420	14.8	77.9	96499	5	US-10-087-192-2011	Sequence 2011, Ap	493	14.4	75.8	508	4	US-09-925-065A-463386	Sequence 463386,
C 421	14.8	77.9	96597	6	US-10-085-117-112	Sequence 112, App	494	14.4	75.8	508	9	US-10-972-079-6	Sequence 6, Appli
C 422	14.8	77.9	98716	5	US-10-741-600-17754	Sequence 67754, A	495	14.4	75.8	513	5	US-10-027-632-125496	Sequence 125496,
C 423	14.8	77.9	102374	5	US-10-087-192-667	Sequence 667, App	496	14.4	75.8	513	6	US-10-027-632-125496	Sequence 125496,
C 424	14.8	77.9	110096	3	US-09-880-107-1542	Sequence 1542, Ap	C 497	14.4	75.8	513	9	US-10-756-149-3109	Sequence 310667,
C 425	14.8	77.9	113024	5	US-10-741-600-17920	Sequence 17920, A	C 498	14.4	75.8	526	4	US-09-925-065A-180667	Sequence 180667,
C 426	14.8	77.9	113585	6	US-10-188-470-12	Sequence 12, Appl	C 499	14.4	75.8	536	4	US-09-925-065A-428457	Sequence 428457,
C 427	14.8	77.9	114793	9	US-10-148-806-3	Sequence 3, Appli	C 500	14.4	75.8	536	4	US-09-925-065A-428458	Sequence 428458,
C 428	14.8	77.9	114793	6	US-10-859-792-3	Sequence 3, Appli	C 501	14.4	75.8	536	5	US-09-925-065A-428459	Sequence 428459,
C 429	14.8	77.9	124289	5	US-10-087-192-817	Sequence 817, App	502	14.4	75.8	539	5	US-10-027-632-83189	Sequence 83189, A
C 430	14.8	77.9	130244	5	US-10-461-862-104	Sequence 104, App	503	14.4	75.8	539	6	US-10-027-632-83189	Sequence 83189, A
C 431	14.8	77.9	131576	5	US-10-087-192-1564	Sequence 1564, Ap	C 504	14.4	75.8	541	4	US-09-925-065A-91030	Sequence 91030, A
C 432	14.8	77.9	134841	5	US-10-087-192-1987	Sequence 1987, Ap	C 505	14.4	75.8	541	4	US-09-925-065A-91031	Sequence 91031, A
C 433	14.8	77.9	179041	7	US-10-741-601-5678	Sequence 5678, Ap	C 506	14.4	75.8	541	4	US-09-925-065A-332013	Sequence 332013,
C 434	14.8	77.9	274869	8	US-10-741-600-17650	Sequence 17650, A	C 507	14.4	75.8	567	4	US-09-925-065A-609353	Sequence 609353,
C 435	14.8	77.9	314364	9	US-10-917-647-3	Sequence 3, Appli	C 508	14.4	75.8	567	5	US-09-925-065A-609354	Sequence 609354,
C 436	14.8	77.9	326014	3	US-09-731-231A-3	Sequence 3, Appli	C 509	14.4	75.8	573	5	US-10-027-632-281069	Sequence 281069,
C 437	14.8	77.9	326014	7	US-10-751-985-3	Sequence 3, Appli	C 510	14.4	75.8	573	5	US-10-027-632-281070	Sequence 281070,
C 438	14.8	77.9	330973	5	US-10-087-192-1498	Sequence 1498, Ap	C 511	14.4	75.8	573	5	US-10-027-632-281071	Sequence 281071,
C 439	14.8	77.9	340473	9	US-09-903-582-3	Sequence 3, Appli	C 512	14.4	75.8	573	5	US-10-027-632-281072	Sequence 281072,
C 440	14.8	77.9	495635	9	US-10-737-082-12	Sequence 12, Appl	C 513	14.4	75.8	573	6	US-10-027-632-281069	Sequence 281069,
C 441	14.8	77.9	495635	9	US-10-765-790-12	Sequence 12, Appl	C 514	14.4	75.8	573	6	US-10-027-632-281070	Sequence 281070,
C 442	14.8	77.9	608916	9	US-10-461-862-1	Sequence 1, Appli	C 515	14.4	75.8	573	6	US-10-027-632-281071	Sequence 281071,
C 443	14.8	77.9	705636	9	US-10-737-082-30	Sequence 30, Appl	C 516	14.4	75.8	573	6	US-10-027-632-281072	Sequence 281072,
C 444	14.8	77.9	705636	9	US-10-765-790-30	Sequence 30, Appl	C 517	14.4	75.8	573	5	US-10-027-632-47889	Sequence 47889, A
C 445	14.8	77.9	2162598	8	US-10-472-928-4979	Sequence 4979, Ap	518	14.4	75.8	575	5	US-10-027-632-59776	Sequence 59776, A
C 446	14.8	77.9	2256646	7	US-10-470-565-1	Sequence 1, Appli	519	14.4	75.8	575	5	US-10-027-632-62064	Sequence 62064, A
C 447	14.8	77.9	9025608	6	US-10-156-761-1	Sequence 1, Appli	520	14.4	75.8	575	5	US-10-027-632-107495	Sequence 107495,
C 448	14.6	76.8	444	9	US-10-972-079-1921	Sequence 1921, Ap	521	14.4	75.8	575	6	US-10-027-632-47889	Sequence 47889, A
C 449	14.6	76.8	532	9	US-10-972-079-1920	Sequence 1920, Ap	522	14.4	75.8	575	6	US-10-027-632-59776	Sequence 59776, A
C 450	14.6	76.8	551	9	US-10-972-079-1919	Sequence 1919, Ap	523	14.4	75.8	575	6	US-10-027-632-62064	Sequence 62064, A
C 451	14.6	76.8	600	9	US-10-972-079-1917	Sequence 1917, Ap	524	14.4	75.8	575	6	US-10-027-632-107495	Sequence 107495,
C 452	14.6	76.8	600	9	US-10-972-079-1918	Sequence 1918, Ap	525	14.4	75.8	576	4	US-09-925-065A-459360	Sequence 459360,
C 453	14.4	75.8	25	7	US-10-719-956-243607	Sequence 243607,	526	14.4	75.8	576	4	US-09-925-065A-459361	Sequence 459361,
C 454	14.4	75.8	25	10	US-11-036-317-509007	Sequence 509007,	527	14.4	75.8	576	4	US-09-925-065A-459362	Sequence 459362,
C 455	14.4	75.8	25	10	US-11-036-317-528835	Sequence 528835,	C 528	14.4	75.8	577	4	US-09-925-065A-588687	Sequence 588687,
C 456	14.4	75.8	25	10	US-11-036-317-586932	Sequence 586932,	C 529	14.4	75.8	582	4	US-09-925-065A-769505	Sequence 769505,
C 457	14.4	75.8	25	10	US-11-036-317-738959	Sequence 738959,	530	14.4	75.8	591	4	US-09-925-065A-762767	Sequence 762767,
C 458	14.4	75.8	27	6	US-10-104-271-19	Sequence 19, Appli	531	14.4	75.8	591	4	US-09-925-065A-762768	Sequence 762768,
C 459	14.4	75.8	28	6	US-10-104-271-9	Sequence 9, Appli	532	14.4	75.8	592	9	US-10-972-079-5	Sequence 5, Appli
C 460	14.4	75.8	149	7	US-10-424-599-171835	Sequence 71835, A	533	14.4	75.8	593	4	US-10-925-065A-767855	Sequence 767855,
C 461	14.4	75.8	157	7	US-10-430-201-1210	Sequence 1210, Ap	534	14.4	75.8	600	9	US-10-925-065A-3745	Sequence 3745, Ap

535	14.4	75.8	600	9	US-10-972-079-3746	Sequence 3746, Ap	608	14.4	75.8	1356	4	US-09-925-065A-386	Sequence 386, App
536	14.4	75.8	600	9	US-10-972-079-3747	Sequence 3747, Ap	609	14.4	75.8	1358	4	US-09-925-065A-72986	Sequence 72986, A
C 537	14.4	75.8	600	9	Sequence 53521, A	Sequence 53521, A	610	14.4	75.8	1415	7	US-10-767-701-15442	Sequence 15442, A
C 538	14.4	75.8	600	9	US-10-972-079-53522	Sequence 53522, A	611	14.4	75.8	1456	3	US-09-880-107-2226	Sequence 2226, Ap
539	14.4	75.8	604	4	US-09-925-065A-146923	Sequence 146923, A	C 612	14.4	75.8	1456	3	US-09-919-197-3	Sequence 3, Appli
C 540	14.4	75.8	605	4	US-09-925-065A-284675	Sequence 284675, A	C 613	14.4	75.8	1456	8	US-10-835-208-3	Sequence 3, Appli
C 541	14.4	75.8	605	4	US-09-925-065A-284676	Sequence 284676, A	C 614	14.4	75.8	1476	9	US-10-450-763-13274	Sequence 13274, A
542	14.4	75.8	613	4	US-09-925-065A-570861	Sequence 570861, A	C 615	14.4	75.8	1496	9	US-10-956-157-5138	Sequence 5138, Ap
543	14.4	75.8	613	4	US-09-925-065A-570862	Sequence 570862, A	C 616	14.4	75.8	1565	3	US-09-925-065A-718893	Sequence 718893, A
544	14.4	75.8	613	4	US-09-925-065A-570863	Sequence 570863, A	C 617	14.4	75.8	1568	3	US-09-925-065A-718893	Sequence 718893, A
545	14.4	75.8	613	4	US-09-925-065A-570864	Sequence 570864, A	C 618	14.4	75.8	1568	3	US-09-925-065A-718893	Sequence 718893, A
C 546	14.4	75.8	628	4	US-09-925-065A-493022	Sequence 493022, A	C 619	14.4	75.8	1589	5	US-10-889-890-7	Sequence 7, Appli
C 547	14.4	75.8	636	8	US-10-425-115-181424	Sequence 181424, A	C 620	14.4	75.8	1637	7	US-10-302-172-389	Sequence 1697, Ap
C 548	14.4	75.8	638	4	US-09-925-065A-718441	Sequence 718441, A	C 621	14.4	75.8	1655	7	US-10-425-114-26144	Sequence 389, App
C 549	14.4	75.8	643	4	US-09-925-065A-456558	Sequence 456558, A	C 622	14.4	75.8	1655	7	US-10-425-114-26144	Sequence 26144, A
C 550	14.4	75.8	646	4	US-09-925-065A-693320	Sequence 693320, A	C 623	14.4	75.8	1671	3	US-09-888-615-47	Sequence 47, Appli
C 551	14.4	75.8	646	4	US-09-925-065A-693321	Sequence 693321, A	C 624	14.4	75.8	1681	8	US-10-425-115-73510	Sequence 73510, A
C 552	14.4	75.8	648	4	US-09-925-065A-931368	Sequence 931368, A	C 625	14.4	75.8	1709	5	US-10-425-115-73510	Sequence 73510, A
C 553	14.4	75.8	662	4	US-09-925-065A-947252	Sequence 947252, A	C 626	14.4	75.8	1716	7	US-10-425-115-73510	Sequence 73510, A
554	14.4	75.8	676	5	US-10-027-632-205345	Sequence 205345, A	C 627	14.4	75.8	1734	7	US-10-317-278-4	Sequence 15397, A
555	14.4	75.8	676	5	US-10-027-632-205345	Sequence 205345, A	C 628	14.4	75.8	1734	7	US-10-317-278-4	Sequence 15397, A
C 556	14.4	75.8	679	5	US-10-027-632-199428	Sequence 199428, A	C 629	14.4	75.8	1956	6	US-10-369-493-38375	Sequence 38375, A
C 557	14.4	75.8	679	5	US-10-027-632-199429	Sequence 199429, A	C 630	14.4	75.8	1956	6	US-10-369-493-38375	Sequence 38375, A
C 558	14.4	75.8	679	5	US-10-027-632-199428	Sequence 199428, A	C 631	14.4	75.8	1956	6	US-10-369-493-38375	Sequence 38375, A
C 559	14.4	75.8	679	5	US-10-027-632-199429	Sequence 199429, A	C 632	14.4	75.8	1956	6	US-10-369-493-38375	Sequence 38375, A
C 560	14.4	75.8	685	3	US-09-814-353-20457	Sequence 20457, A	C 633	14.4	75.8	2202	6	US-10-425-115-130976	Sequence 130976, A
C 561	14.4	75.8	698	8	US-10-723-860-2322	Sequence 2322, Ap	C 634	14.4	75.8	2202	6	US-10-425-115-130976	Sequence 130976, A
562	14.4	75.8	699	7	US-10-767-701-15397	Sequence 15397, A	C 635	14.4	75.8	2286	7	US-10-767-701-15397	Sequence 13720, Ap
563	14.4	75.8	714	5	US-10-027-632-142108	Sequence 142108, A	C 636	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
564	14.4	75.8	714	5	US-10-027-632-142108	Sequence 142108, A	C 637	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 565	14.4	75.8	719	4	US-09-925-065A-920064	Sequence 920064, A	C 638	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 566	14.4	75.8	719	4	US-09-925-065A-920064	Sequence 920064, A	C 639	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 567	14.4	75.8	719	4	US-09-925-065A-920066	Sequence 920066, A	C 640	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
568	14.4	75.8	720	7	US-10-282-122A-23754	Sequence 23754, A	C 641	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 569	14.4	75.8	737	5	US-10-027-632-12120	Sequence 12120, A	C 642	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 570	14.4	75.8	737	5	US-10-027-632-12120	Sequence 12120, A	C 643	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 571	14.4	75.8	756	6	US-10-104-271-5	Sequence 5, Appli	C 644	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
572	14.4	75.8	761	4	US-09-925-065A-931370	Sequence 931370, A	C 645	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
573	14.4	75.8	761	4	US-09-925-065A-931371	Sequence 931371, A	C 646	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 574	14.4	75.8	766	4	US-09-925-065A-920062	Sequence 920062, A	C 647	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 575	14.4	75.8	766	4	US-09-925-065A-920063	Sequence 920063, A	C 648	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 576	14.4	75.8	785	5	US-10-027-632-158388	Sequence 158388, A	C 649	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 577	14.4	75.8	785	5	US-10-027-632-158388	Sequence 158388, A	C 650	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 578	14.4	75.8	813	9	US-10-450-763-5535	Sequence 5535, Ap	C 651	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 579	14.4	75.8	879	7	US-10-282-122A-6844	Sequence 6844, Ap	C 652	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 580	14.4	75.8	881	5	US-10-027-632-131317	Sequence 131317, A	C 653	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 581	14.4	75.8	881	5	US-10-027-632-131318	Sequence 131318, A	C 654	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 582	14.4	75.8	881	5	US-10-027-632-131317	Sequence 131317, A	C 655	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 583	14.4	75.8	881	5	US-10-027-632-131318	Sequence 131318, A	C 656	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
584	14.4	75.8	883	4	US-09-925-065A-931369	Sequence 931369, A	C 657	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 585	14.4	75.8	897	4	US-09-925-065A-66217	Sequence 66217, A	C 658	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 586	14.4	75.8	897	4	US-09-925-065A-66218	Sequence 66218, A	C 659	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 587	14.4	75.8	909	3	US-09-735-713A-3	Sequence 3, Appli	C 660	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 588	14.4	75.8	909	3	US-10-889-890-3	Sequence 3, Appli	C 661	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 589	14.4	75.8	921	3	US-09-735-713A-1	Sequence 1, Appli	C 662	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 590	14.4	75.8	921	3	US-10-487-462-3	Sequence 3, Appli	C 663	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 591	14.4	75.8	921	3	US-10-889-890-1	Sequence 1, Appli	C 664	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 592	14.4	75.8	934	6	US-10-029-386-22844	Sequence 22844, A	C 665	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 593	14.4	75.8	1004	7	US-10-424-599-103284	Sequence 103284, A	C 666	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 594	14.4	75.8	1035	6	US-10-104-271-12	Sequence 12, Appli	C 667	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
595	14.4	75.8	1100	4	US-09-925-065A-709044	Sequence 709044, A	C 668	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 596	14.4	75.8	1100	4	US-09-925-065A-709045	Sequence 709045, A	C 669	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 597	14.4	75.8	1168	7	US-10-712-124-11	Sequence 11, Appli	C 670	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 598	14.4	75.8	1168	10	US-11-060-756-2876	Sequence 2876, Ap	C 671	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 599	14.4	75.8	1168	10	US-11-060-756-7148	Sequence 7148, Ap	C 672	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
600	14.4	75.8	1185	4	US-10-739-930-1593	Sequence 1593, A	C 673	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
601	14.4	75.8	1191	7	US-10-767-701-15400	Sequence 15400, A	C 674	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
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C 603	14.4	75.8	1261	5	US-10-027-632-122680	Sequence 122680, A	C 676	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 604	14.4	75.8	1262	7	US-10-311-035-41	Sequence 41, Appli	C 677	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 605	14.4	75.8	1301	5	US-10-037-270-268	Sequence 268, App	C 678	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 606	14.4	75.8	1301	6	US-10-117-722-268	Sequence 268, App	C 679	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli
C 607	14.4	75.8	1301	9	US-10-122-851-268	Sequence 268, App	C 680	14.4	75.8	2343	8	US-10-473-974-69	Sequence 69, Appli

c 681	14.4	75.8	25860	5	US-10-087-192-1696	Sequence 1696, Ap	754	14.2	74.7	274	8	US-10-357-930-3438	Sequence 3438, Ap
c 682	14.4	75.8	25891	5	US-10-087-192-1657	Sequence 1657, Ap	755	14.2	74.7	280	7	US-10-242-535A-1107	Sequence 1107, Ap
c 683	14.4	75.8	33294	9	US-10-737-318-42	Sequence 42, Appl	756	14.2	74.7	280	7	US-10-085-783A-1107	Sequence 1107, Ap
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c 685	14.4	75.8	44990	7	US-10-082-482-2121	Sequence 2121, Ap	c 758	14.2	74.7	288	8	US-10-357-930-3503	Sequence 3503, Ap
c 686	14.4	75.8	47418	8	US-10-719-993-6784	Sequence 6784, Ap	c 759	14.2	74.7	292	8	US-10-357-930-3525	Sequence 3525, Ap
c 687	14.4	75.8	49031	7	US-10-322-281-523	Sequence 523, App	c 760	14.2	74.7	292	8	US-10-357-930-3576	Sequence 3576, Ap
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c 689	14.4	75.8	89756	9	US-10-461-862-133	Sequence 133, App	c 762	14.2	74.7	297	3	US-09-960-352-6318	Sequence 6318, Ap
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c 691	14.4	75.8	98642	5	US-10-087-192-1105	Sequence 1105, Ap	c 764	14.2	74.7	301	8	US-10-425-115-106683	Sequence 106683, Ap
c 692	14.4	75.8	103747	7	US-10-450-826-46	Sequence 46, Appl	c 765	14.2	74.7	306	3	US-09-803-719-673	Sequence 673, App
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c 694	14.4	75.8	128993	8	US-10-484-577-681	Sequence 681, App	c 767	14.2	74.7	317	7	US-10-242-535A-10195	Sequence 10195, A
c 695	14.4	75.8	198161	8	US-10-775-169-52	Sequence 52, Appl	c 768	14.2	74.7	317	7	US-10-085-783A-10195	Sequence 10195, A
c 696	14.4	75.8	198161	8	US-10-723-860-165	Sequence 165, App	c 769	14.2	74.7	317	8	US-10-357-930-33935	Sequence 33935, A
c 697	14.4	75.8	209484	5	US-10-087-192-418	Sequence 418, App	c 770	14.2	74.7	317	8	US-10-357-930-42811	Sequence 42811, A
c 698	14.4	75.8	209484	8	US-10-331-053-4	Sequence 4, Appl	c 771	14.2	74.7	325	3	US-09-960-352-4690	Sequence 4690, Ap
c 699	14.4	75.8	289190	7	US-10-322-281-115	Sequence 115, App	c 772	14.2	74.7	336	8	US-10-424-599-115272	Sequence 115272, A
c 700	14.4	75.8	337022	7	US-10-322-696-52	Sequence 52, Appl	c 773	14.2	74.7	336	8	US-10-425-115-2188	Sequence 2188, Ap
c 701	14.4	75.8	344548	5	US-10-087-192-334	Sequence 334, App	c 774	14.2	74.7	379	7	US-10-767-701-2718	Sequence 2718, Ap
c 702	14.4	75.8	385320	8	US-10-741-600-17796	Sequence 17796, A	c 775	14.2	74.7	381	7	US-10-424-599-113991	Sequence 113991, A
c 703	14.4	75.8	439892	5	US-10-087-192-454	Sequence 454, App	c 776	14.2	74.7	390	3	US-09-918-995-24645	Sequence 24645, A
c 704	14.4	75.8	493631	5	US-10-087-192-205	Sequence 205, App	c 777	14.2	74.7	395	3	US-09-960-352-1837	Sequence 1837, Ap
c 705	14.4	75.8	1790242	8	US-10-719-993-6940	Sequence 6940, Ap	c 778	14.2	74.7	400	7	US-10-242-535A-10948	Sequence 10948, A
c 706	14.2	74.7	20	6	US-10-160-497-69	Sequence 69, Appl	c 779	14.2	74.7	400	3	US-10-085-783A-10948	Sequence 10948, A
c 707	14.2	74.7	20	6	US-10-348-750-69	Sequence 69, Appl	c 780	14.2	74.7	409	3	US-09-960-352-12321	Sequence 12321, A
c 708	14.2	74.7	20	9	US-10-91-147-69	Sequence 69, Appl	c 781	14.2	74.7	410	3	US-09-960-352-2134	Sequence 2134, Ap
c 709	14.2	74.7	25	8	US-10-719-900-216270	Sequence 216270, A	c 782	14.2	74.7	410	3	US-09-918-995-22886	Sequence 22886, A
c 710	14.2	74.7	25	8	US-10-719-900-652621	Sequence 652621, A	c 783	14.2	74.7	411	3	US-09-960-352-9453	Sequence 9453, Ap
c 711	14.2	74.7	25	9	US-10-956-157-292891	Sequence 292891, A	c 784	14.2	74.7	420	9	US-10-756-149-3810	Sequence 3810, Ap
c 712	14.2	74.7	25	10	US-11-036-317-484597	Sequence 484597, A	c 785	14.2	74.7	423	7	US-10-425-114-3777	Sequence 3777, Ap
c 713	14.2	74.7	25	10	US-11-036-317-532270	Sequence 532270, A	c 786	14.2	74.7	428	8	US-10-357-930-33765	Sequence 33765, A
c 714	14.2	74.7	25	10	US-11-036-317-728592	Sequence 728592, A	c 787	14.2	74.7	432	3	US-09-918-995-5352	Sequence 5352, Ap
c 715	14.2	74.7	25	10	US-11-036-317-731316	Sequence 731316, A	c 788	14.2	74.7	435	8	US-10-357-930-33901	Sequence 33901, A
c 716	14.2	74.7	55	5	US-10-027-632-178038	Sequence 178038, A	c 789	14.2	74.7	446	8	US-10-696-039-1460	Sequence 1460, Ap
c 717	14.2	74.7	55	5	US-10-027-632-178052	Sequence 178052, A	c 790	14.2	74.7	451	5	US-10-060-036-385	Sequence 385, App
c 718	14.2	74.7	55	6	US-10-027-632-178052	Sequence 178052, A	c 791	14.2	74.7	454	8	US-10-357-930-33884	Sequence 33884, A
c 719	14.2	74.7	55	6	US-10-027-632-178052	Sequence 178052, A	c 792	14.2	74.7	458	8	US-10-357-930-33986	Sequence 33986, A
c 720	14.2	74.7	115	6	US-10-029-386-15119	Sequence 15119, A	c 793	14.2	74.7	458	8	US-10-357-930-42758	Sequence 42758, A
c 721	14.2	74.7	135	7	US-10-242-535A-1908	Sequence 1908, Ap	c 794	14.2	74.7	459	8	US-10-357-930-33887	Sequence 33887, A
c 722	14.2	74.7	135	7	US-10-085-783A-1908	Sequence 1908, Ap	c 795	14.2	74.7	461	8	US-10-425-115-138753	Sequence 138753, A
c 723	14.2	74.7	149	3	US-09-864-761-23828	Sequence 23828, A	c 796	14.2	74.7	462	3	US-09-764-864-451	Sequence 451, App
c 724	14.2	74.7	152	3	US-09-796-692-7701	Sequence 7701, Ap	c 797	14.2	74.7	463	4	US-09-925-065A-522606	Sequence 522606, A
c 725	14.2	74.7	152	5	US-10-040-862-7701	Sequence 7701, Ap	c 798	14.2	74.7	463	3	US-09-864-761-3273	Sequence 3273, Ap
c 726	14.2	74.7	152	6	US-10-057-475B-7701	Sequence 7701, Ap	c 799	14.2	74.7	465	3	US-09-918-995-225	Sequence 225, App
c 727	14.2	74.7	152	6	US-10-154-884B-7701	Sequence 7701, Ap	c 800	14.2	74.7	468	8	US-10-357-930-33850	Sequence 33850, A
c 728	14.2	74.7	152	8	US-10-764-324-7701	Sequence 7701, Ap	c 801	14.2	74.7	469	7	US-10-242-535A-43054	Sequence 43054, A
c 729	14.2	74.7	178	8	US-10-357-930-12663	Sequence 12663, A	c 802	14.2	74.7	469	7	US-10-085-783A-43054	Sequence 43054, A
c 730	14.2	74.7	179	8	US-10-425-115-65405	Sequence 65405, A	c 803	14.2	74.7	480	4	US-09-925-065A-486428	Sequence 486428, A
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c 732	14.2	74.7	201	8	US-10-719-993-28672	Sequence 28672, A	c 805	14.2	74.7	485	3	US-09-814-353-18687	Sequence 18687, A
c 733	14.2	74.7	201	8	US-10-719-993-28677	Sequence 28677, A	c 806	14.2	74.7	497	4	US-09-925-065A-546614	Sequence 546614, A
c 734	14.2	74.7	227	6	US-10-305-720-255	Sequence 255, App	c 807	14.2	74.7	502	3	US-09-918-995-23556	Sequence 23556, A
c 735	14.2	74.7	248	7	US-10-424-599-113809	Sequence 113809, A	c 808	14.2	74.7	503	3	US-09-918-995-27734	Sequence 27734, A
c 736	14.2	74.7	249	7	US-10-242-535A-10434	Sequence 10434, A	c 809	14.2	74.7	503	8	US-10-357-930-54084	Sequence 54084, A
c 737	14.2	74.7	249	7	US-10-085-783A-10434	Sequence 10434, A	c 810	14.2	74.7	508	8	US-10-357-930-33825	Sequence 33825, A
c 738	14.2	74.7	249	8	US-10-357-930-12668	Sequence 12668, A	c 811	14.2	74.7	508	8	US-10-357-930-33828	Sequence 33828, A
c 739	14.2	74.7	249	8	US-10-357-930-12668	Sequence 12668, A	c 812	14.2	74.7	508	8	US-10-357-930-33829	Sequence 33829, A
c 740	14.2	74.7	249	8	US-10-357-930-12672	Sequence 12672, A	c 813	14.2	74.7	508	8	US-10-357-930-33949	Sequence 33949, A
c 741	14.2	74.7	249	8	US-10-357-930-12694	Sequence 12694, A	c 814	14.2	74.7	508	8	US-10-357-930-42663	Sequence 42663, A
c 742	14.2	74.7	249	8	US-10-357-930-12728	Sequence 12728, A	c 815	14.2	74.7	508	8	US-10-357-930-42719	Sequence 42719, A
c 743	14.2	74.7	249	8	US-10-357-930-12731	Sequence 12731, A	c 816	14.2	74.7	508	8	US-10-357-930-42721	Sequence 42721, A
c 744	14.2	74.7	249	8	US-10-357-930-12745	Sequence 12745, A	c 817	14.2	74.7	508	8	US-10-357-930-42722	Sequence 42722, A
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c 746	14.2	74.7	250	8	US-10-357-930-3494	Sequence 3494, Ap	c 819	14.2	74.7	511	3	US-09-796-692-4220	Sequence 4220, Ap
c 747	14.2	74.7	251	8	US-10-357-930-12779	Sequence 12779, A	c 820	14.2	74.7	511	5	US-09-925-065A-541684	Sequence 541684, A
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827	14.2	74.7	515	6	US-10-029-386-1417	Sequence 1417, Ap	900	14.2	74.7	633	6	US-10-027-632-271421	Sequence 271421,
c 828	14.2	74.7	516	4	US-09-925-065A-619783	Sequence 619783,	901	14.2	74.7	635	4	US-09-925-065A-742450	Sequence 742450,
829	14.2	74.7	516	5	US-10-027-632-290546	Sequence 290546,	902	14.2	74.7	635	4	US-09-925-065A-742451	Sequence 742451,
830	14.2	74.7	516	5	US-10-027-632-290547	Sequence 290547,	c 903	14.2	74.7	637	4	US-09-925-065A-752168	Sequence 752168,
831	14.2	74.7	516	6	US-10-027-632-290547	Sequence 290547,	c 904	14.2	74.7	637	4	US-09-925-065A-752169	Sequence 752169,
832	14.2	74.7	516	6	US-10-027-632-290547	Sequence 290547,	c 905	14.2	74.7	638	4	US-09-925-065A-941561	Sequence 941561,
c 833	14.2	74.7	518	5	US-10-060-036-244	Sequence 244, App	c 906	14.2	74.7	638	4	US-09-925-065A-941562	Sequence 941562,
834	14.2	74.7	520	4	US-09-925-065A-580306	Sequence 580306,	907	14.2	74.7	639	4	US-09-925-065A-490145	Sequence 490145,
c 835	14.2	74.7	523	8	US-10-425-115-77925	Sequence 77925, A	908	14.2	74.7	639	4	US-09-925-065A-490148	Sequence 490148,
c 836	14.2	74.7	528	4	US-09-925-065A-638029	Sequence 638029,	c 909	14.2	74.7	640	5	US-10-027-632-122226	Sequence 122226,
c 837	14.2	74.7	534	3	US-09-974-300-2268	Sequence 2268, Ap	c 910	14.2	74.7	640	5	US-10-027-632-122227	Sequence 122227,
c 838	14.2	74.7	536	4	US-09-925-065A-348957	Sequence 348957,	c 911	14.2	74.7	640	6	US-10-027-632-122227	Sequence 122227,
c 839	14.2	74.7	542	3	US-09-736-692-4370	Sequence 4370, Ap	c 912	14.2	74.7	640	6	US-10-027-632-122227	Sequence 122227,
840	14.2	74.7	542	5	US-10-040-862-4370	Sequence 4370, Ap	913	14.2	74.7	644	8	US-10-357-930-3320	Sequence 3320, A
841	14.2	74.7	542	6	US-10-057-4758-4370	Sequence 4370, Ap	914	14.2	74.7	644	8	US-10-357-930-42714	Sequence 42714, A
842	14.2	74.7	542	6	US-10-154-8848-4370	Sequence 4370, Ap	c 915	14.2	74.7	668	6	US-10-029-386-20182	Sequence 20182, A
843	14.2	74.7	542	8	US-10-764-324-4370	Sequence 4370, Ap	c 916	14.2	74.7	681	4	US-09-925-065A-58570	Sequence 58570, A
c 844	14.2	74.7	543	4	US-09-925-065A-62854	Sequence 62854, A	c 917	14.2	74.7	681	4	US-09-925-065A-58571	Sequence 58571, A
c 845	14.2	74.7	543	4	US-09-925-065A-62855	Sequence 62855, A	c 918	14.2	74.7	681	4	US-09-925-065A-58572	Sequence 58572, A
c 846	14.2	74.7	544	4	US-09-925-065A-456115	Sequence 456115,	c 919	14.2	74.7	681	4	US-09-925-065A-58573	Sequence 58573, A
847	14.2	74.7	546	9	US-10-972-079-65795	Sequence 65795, A	c 920	14.2	74.7	684	5	US-10-027-632-13025	Sequence 13025, A
848	14.2	74.7	550	9	US-10-972-079-65794	Sequence 65794, A	c 921	14.2	74.7	684	5	US-10-027-632-13025	Sequence 13025, A
849	14.2	74.7	553	5	US-10-206-901B-4	Sequence 4, Appli	c 922	14.2	74.7	698	4	US-09-925-065A-72836	Sequence 72836, A
c 850	14.2	74.7	560	3	US-09-738-973-301	Sequence 301, App	c 923	14.2	74.7	708	4	US-09-925-065A-83504	Sequence 83504, A
c 851	14.2	74.7	560	3	US-09-854-133-301	Sequence 301, App	c 924	14.2	74.7	708	4	US-09-925-065A-83505	Sequence 83505, A
c 852	14.2	74.7	560	5	US-10-144-649A-301	Sequence 301, App	c 925	14.2	74.7	708	4	US-09-925-065A-83506	Sequence 83506, A
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c 854	14.2	74.7	562	4	US-09-925-065A-923703	Sequence 923703,	c 927	14.2	74.7	708	4	US-09-925-065A-83508	Sequence 83508, A
c 855	14.2	74.7	563	8	US-10-357-930-58383	Sequence 58383, A	c 928	14.2	74.7	708	9	US-09-925-065A-83508	Sequence 83508, A
856	14.2	74.7	564	4	US-09-925-065A-291184	Sequence 291184,	c 929	14.2	74.7	713	5	US-10-450-763-24580	Sequence 24580, A
857	14.2	74.7	564	4	US-09-925-065A-291185	Sequence 291185,	c 930	14.2	74.7	713	5	US-10-027-632-14616	Sequence 14616, A
858	14.2	74.7	564	4	US-09-925-065A-291186	Sequence 291186,	c 931	14.2	74.7	713	6	US-10-027-632-14616	Sequence 14616, A
859	14.2	74.7	569	4	US-09-925-065A-490167	Sequence 490167,	c 932	14.2	74.7	714	5	US-10-027-632-23745	Sequence 23745, A
860	14.2	74.7	570	4	US-09-925-065A-512672	Sequence 512672,	c 933	14.2	74.7	714	6	US-10-027-632-23745	Sequence 23745, A
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863	14.2	74.7	575	4	US-09-925-065A-884426	Sequence 884426,	c 936	14.2	74.7	719	6	US-10-027-632-149329	Sequence 149329,
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866	14.2	74.7	579	4	US-09-925-065A-141725	Sequence 141725,	c 939	14.2	74.7	722	5	US-10-027-632-169005	Sequence 169005,
867	14.2	74.7	579	4	US-09-925-065A-141725	Sequence 141725,	c 940	14.2	74.7	722	5	US-10-027-632-169005	Sequence 169005,
868	14.2	74.7	579	7	US-10-424-599-127308	Sequence 127308,	c 941	14.2	74.7	725	9	US-10-956-157-2792	Sequence 2792, Ap
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c 870	14.2	74.7	585	5	US-10-027-632-210182	Sequence 210182,	c 943	14.2	74.7	733	7	US-10-425-114-13713	Sequence 13713, A
c 871	14.2	74.7	585	6	US-10-027-632-210182	Sequence 210182,	c 944	14.2	74.7	733	7	US-10-425-114-13713	Sequence 13713, A
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873	14.2	74.7	595	7	US-10-425-114-19109	Sequence 19109, A	c 946	14.2	74.7	760	7	US-10-437-963-6991	Sequence 6991, Ap
874	14.2	74.7	597	4	US-09-925-065A-809231	Sequence 809231,	c 947	14.2	74.7	765	8	US-10-425-115-163171	Sequence 163171,
c 875	14.2	74.7	599	4	US-09-925-065A-533756	Sequence 533756,	c 948	14.2	74.7	771	7	US-10-437-963-71361	Sequence 71361, A
c 876	14.2	74.7	599	4	US-09-925-065A-729629	Sequence 729629,	c 949	14.2	74.7	771	8	US-10-425-115-74327	Sequence 74327, A
c 877	14.2	74.7	599	4	US-09-925-065A-729630	Sequence 729630,	c 950	14.2	74.7	778	5	US-10-027-632-157790	Sequence 157790,
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c 879	14.2	74.7	599	9	US-10-972-079-57517	Sequence 57517, A	c 952	14.2	74.7	780	8	US-10-425-115-42671	Sequence 42671, A
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c 881	14.2	74.7	600	9	US-10-972-079-40039	Sequence 40039, A	c 954	14.2	74.7	789	6	US-10-027-632-165317	Sequence 165317,
c 882	14.2	74.7	600	9	US-10-972-079-40040	Sequence 40040, A	c 955	14.2	74.7	789	8	US-10-774-355A-835	Sequence 835, App
c 883	14.2	74.7	600	9	US-10-972-079-57518	Sequence 57518, A	c 956	14.2	74.7	791	5	US-10-027-632-171252	Sequence 171252,
c 884	14.2	74.7	600	9	US-10-972-079-87541	Sequence 87541, A	c 957	14.2	74.7	791	6	US-10-027-632-171252	Sequence 171252,
c 885	14.2	74.7	609	5	US-10-027-632-266130	Sequence 266130,	c 958	14.2	74.7	795	5	US-10-027-632-167727	Sequence 167727,
c 886	14.2	74.7	609	5	US-10-027-632-266131	Sequence 266131,	c 959	14.2	74.7	795	6	US-10-027-632-167727	Sequence 167727,
c 887	14.2	74.7	609	5	US-10-027-632-266132	Sequence 266132,	c 960	14.2	74.7	797	7	US-10-767-701-4259	Sequence 4259, Ap
c 888	14.2	74.7	609	6	US-10-027-632-266132	Sequence 266132,	c 961	14.2	74.7	797	8	US-10-774-355A-939	Sequence 939, App
c 889	14.2	74.7	609	6	US-10-027-632-266131	Sequence 266131,	c 962	14.2	74.7	803	6	US-10-012-697-437	Sequence 437, App
c 890	14.2	74.7	609	6	US-10-027-632-266132	Sequence 266132,	c 963	14.2	74.7	803	9	US-10-779-543-22437	Sequence 22437, A
c 891	14.2	74.7	611	4	US-09-925-065A-769495	Sequence 769495,	c 964	14.2	74.7	809	5	US-10-027-632-164874	Sequence 164874, A
c 892	14.2	74.7	613	4	US-09-925-065A-765661	Sequence 765661,	c 965	14.2	74.7	809	6	US-10-027-632-164874	Sequence 164874, A
c 893	14.2	74.7	614	4	US-09-925-065A-761747	Sequence 761747,	c 966	14.2	74.7	811	5	US-10-027-632-152682	Sequence 152682,
c 894	14.2	74.7	616	4	US-09-925-065A-490147	Sequence 490147,	c 967	14.2	74.7	811	6	US-10-027-632-152682	Sequence 152682,
c 895	14.2	74.7	622	4	US-09-925-065A-95909	Sequence 95909, A	c 968	14.2	74.7	813	8	US-10-450-763-10868	Sequence 10868, A
c 896	14.2	74.7	623	4	US-09-925-065A-319115	Sequence 319115,	c 969	14.2	74.7	813	8	US-10-425-115-74450	Sequence 74450, A
c 897	14.2	74.7	628	4	US-09-925-065A-722494	Sequence 722494,	c 970	14.2	74.7	822	7	US-10-425-114-23223	Sequence 23223, A
c 898	14.2	74.7	628	4	US-09-925-065A-722495	Sequence 722495,	c 971	14.2	74.7	827	5	US-10-027-632-159439	Sequence 159439,
c 899	14.2	74.7	633	5	US-10-027-632-271421	Sequence 271421,	c 972	14.2	74.7	827	6	US-10-027-632-159439	Sequence 159439,

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c 975 14.2 74.7 831 4 US-09-925-065A-82007 Sequence 82007, A  
976 14.2 74.7 835 7 US-10-276-774-1235 Sequence 1235, Ap  
977 14.2 74.7 836 7 US-10-425-114-22286 Sequence 22286, A  
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c 979 14.2 74.7 855 7 US-10-437-963-54895 Sequence 54895, A  
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981 14.2 74.7 870 9 US-10-732-923-221 Sequence 221, App  
c 982 14.2 74.7 874 5 US-10-027-632-128588 Sequence 128588,  
c 983 14.2 74.7 874 5 US-10-027-632-128589 Sequence 128589,  
c 984 14.2 74.7 874 6 US-10-027-632-128588 Sequence 128588,  
c 985 14.2 74.7 874 6 US-10-027-632-128589 Sequence 128589,  
c 986 14.2 74.7 875 7 US-10-757-701-10483 Sequence 10483, A  
c 987 14.2 74.7 901 7 US-10-425-114-30687 Sequence 30687, A  
c 988 14.2 74.7 914 8 US-10-774-355A-866 Sequence 866, App  
989 14.2 74.7 923 5 US-10-027-632-122195 Sequence 122195,  
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c 991 14.2 74.7 933 3 US-09-764-864-518 Sequence 518, App  
c 992 14.2 74.7 957 7 US-10-425-114-8047 Sequence 8047, Ap  
993 14.2 74.7 967 4 US-09-925-065A-698141 Sequence 698141,  
994 14.2 74.7 996 8 US-10-425-115-74451 Sequence 74451, A  
995 14.2 74.7 999 9 US-10-450-763-14140 Sequence 14140, A  
c 996 14.2 74.7 1005 4 US-09-925-065A-2087 Sequence 2087, Ap  
c 997 14.2 74.7 1005 4 US-09-925-065A-2088 Sequence 2088, Ap  
998 14.2 74.7 1005 8 US-10-739-930-2305 Sequence 2305, Ap  
c 999 14.2 74.7 1043 7 US-10-169-395-149 Sequence 149, App  
c1000 14.2 74.7 1052 7 US-10-424-599-33651 Sequence 33651, A

ALIGNMENTS

RESULT 1  
US-10-085-612-4  
; Sequence 4, Application US/10085612  
; Publication No. US20030096251A1  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Vredenburg, James  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals  
; FILE REFERENCE: 4389-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 1254  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612-4

Query Match 91.6%; Score 17.4; DB 5; Length 1254;  
Best Local Similarity 94.7%; Pred. No. 80;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 690 GGGGTCTGTCTGGCTGGGC 708

RESULT 2  
US-09-925-065A-675137  
; Sequence 675137, Application US/09925065A

; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: Fast-SEQ for Windows Version 4.0  
; SEQ ID NO 675137  
; LENGTH: 2214  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-675137

Query Match 91.6%; Score 17.4; DB 4; Length 2214;  
Best Local Similarity 94.7%; Pred. No. 75;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 652 GGGGTCTGTCTGGCTGGGC 670

RESULT 3  
US-10-484-577-660  
; Sequence 660, Application US/10484577  
; Publication No. US20050032724A1  
; GENERAL INFORMATION:  
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A  
; FILE REFERENCE: F2285PCT-1  
; CURRENT APPLICATION NUMBER: US/10/484,577  
; CURRENT FILING DATE: 2004-01-22  
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
; PRIOR FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
; PRIOR FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: EP 02011710.7  
; PRIOR FILING DATE: 2002-05-24  
; NUMBER OF SEQ ID NOS: 683  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 660  
; LENGTH: 177531  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-484-577-660

Query Match 91.6%; Score 17.4; DB 8; Length 177531;  
Best Local Similarity 94.7%; Pred. No. 45;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 15423 GGGGTCTGTCTGGCTGGGC 15441

RESULT 4  
US-10-425-115-134491  
; Sequence 134491, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:



; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 134491  
; LENGTH: 268  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(268)  
; OTHER INFORMATION: unsure at all n locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_54140C.1  
US-10-425-115-134491

Query Match 86.3%; Score 16.4; DB 8; Length 268;  
Best Local Similarity 94.4%; Pred. No. 2.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 153 GGGGTCTGTCTGGCTGAG 170

RESULT 5  
US-10-425-115-79824  
; Sequence 79824, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 79824  
; LENGTH: 374  
; TYPE: DNA  
; ORGANISM: Zea mays  
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US-10-425-115-79824

Query Match 86.3%; Score 16.4; DB 8; Length 374;  
Best Local Similarity 94.4%; Pred. No. 2.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAG 18  
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DB 277 GGGGTCTGTCTGGCAGAG 294

RESULT 6  
US-09-867-701-8175/c  
; Sequence 8175, Application US/09867701  
; Patent No. US20020132237A1  
; GENERAL INFORMATION:  
; APPLICANT: Aglate, Paul A.  
; APPLICANT: Jones, Robert  
; APPLICANT: Harlocker, Susan L.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER

; FILE REFERENCE: 210121.497  
; CURRENT APPLICATION NUMBER: US/09/867,701  
; CURRENT FILING DATE: 2001-05-29  
; NUMBER OF SEQ ID NOS: 10912  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8175  
; LENGTH: 422  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-867-701-8175

Query Match 86.3%; Score 16.4; DB 3; Length 422;  
Best Local Similarity 94.4%; Pred. No. 2.8e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAG 18  
|||||  
DB 421 GGGGTCTGTCTGGCTGAG 404

RESULT 7  
US-10-128-714-7457  
; Sequence 7457, Application US/10128714  
; Publication No. US20030119013A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Bo  
; APPLICANT: Hu, Wengqi  
; APPLICANT: Tishkoff, Daniel  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Broshkin, Alexey M  
; APPLICANT: Lemieux, Sebastien M  
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and  
; TITLE OF INVENTION: Methods of Use  
; FILE REFERENCE: 10182-018-999  
; CURRENT APPLICATION NUMBER: US/10/128,714  
; CURRENT FILING DATE: 2002-04-23  
; PRIOR APPLICATION NUMBER: US 60/285,697  
; PRIOR FILING DATE: 2001-04-23  
; PRIOR APPLICATION NUMBER: US 60/287,066  
; PRIOR FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: US 60/295,890  
; PRIOR FILING DATE: 2001-06-05  
; PRIOR APPLICATION NUMBER: US 60/303,899  
; PRIOR FILING DATE: 2001-07-09  
; PRIOR APPLICATION NUMBER: US 60/316,362  
; PRIOR FILING DATE: 2001-08-31  
; NUMBER OF SEQ ID NOS: 8603  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7457  
; LENGTH: 1680  
; TYPE: DNA  
; ORGANISM: Aspergillus fumigatus  
US-10-128-714-7457

Query Match 86.3%; Score 16.4; DB 5; Length 1680;  
Best Local Similarity 94.4%; Pred. No. 2.4e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAG 18  
|||||  
DB 1561 GGGGTCTGTCTGGCTGAG 1578

RESULT 8  
US-10-128-714-6457  
; Sequence 6457, Application US/10128714  
; Publication No. US20030119013A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Bo  
; APPLICANT: Hu, Wengqi  
; APPLICANT: Tishkoff, Daniel  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Broshkin, Alexey M

APPLICANT: Lemieux, Sebastien M  
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and  
; FILE REFERENCE: 10182-018-999  
; CURRENT APPLICATION NUMBER: US/10/128,714  
; PRIOR FILING DATE: 2002-04-23  
; PRIOR APPLICATION NUMBER: US 60/285,697  
; PRIOR FILING DATE: 2001-04-23  
; PRIOR APPLICATION NUMBER: US 60/287,066  
; PRIOR FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: US 60/295,890  
; PRIOR FILING DATE: 2001-06-05  
; PRIOR APPLICATION NUMBER: US 60/303,899  
; PRIOR FILING DATE: 2001-07-09  
; PRIOR APPLICATION NUMBER: US 60/316,362  
; NUMBER OF SEQ ID NOS: 8603  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6457  
; LENGTH: 1880  
; TYPE: DNA  
; ORGANISM: Aspergillus fumigatus  
US-10-128-714-6457

Query Match 86.3%; Score 16.4; DB 5; Length 1880;  
Best Local Similarity 94.4%; Pred. No. 2.3e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGAG 18  
||||| |||||||  
Db 1761 GGGTCAGTCTGGCTGAG 1778

RESULT 9  
US-10-450-763-5676/c  
; Sequence 5676, Application US/10450763  
; Publication No. US20050196754A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc  
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
; FILE REFERENCE: 790CIP3/US  
; CURRENT APPLICATION NUMBER: US/10/450,763  
; CURRENT FILING DATE: 2003-06-11  
; PRIOR APPLICATION NUMBER: PCT/US01/08631  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/540,217  
; PRIOR FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: 09/649,167  
; PRIOR FILING DATE: 2000-08-23  
; NUMBER OF SEQ ID NOS: 60736  
; SOFTWARE: Custom  
; SEQ ID NO 5676  
; LENGTH: 3763  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIMILAR  
; LOCATION: (164)..(3109)  
; OTHER INFORMATION: 100% homologous to Homo sapiens myosin phosphatase  
; OTHER INFORMATION: targeting/regulatory subunit,accession number AB003062,Smith-  
; OTHER INFORMATION: Waterman Score=4985.  
US-10-450-763-5676

Query Match 86.3%; Score 16.4; DB 9; Length 3763;  
Best Local Similarity 94.4%; Pred. No. 2.2e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGAGC 19  
||||| |||||||  
Db 2353 GGGTTTGTCTGGCTGAGC 2336

RESULT 10

US-10-128-714-5457  
; Sequence 5457, Application US/10128714  
; Publication No. US20030119013A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Bo  
; APPLICANT: Hu, Wenqi  
; APPLICANT: Tishkoff, Daniel  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Eroshkin, Alexey M  
; APPLICANT: Lemieux, Sebastien M  
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and  
; FILE REFERENCE: 10182-018-999  
; CURRENT APPLICATION NUMBER: US/10/128,714  
; CURRENT FILING DATE: 2002-04-23  
; PRIOR APPLICATION NUMBER: US 60/285,697  
; PRIOR FILING DATE: 2001-04-23  
; PRIOR APPLICATION NUMBER: US 60/287,066  
; PRIOR FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: US 60/295,890  
; PRIOR FILING DATE: 2001-06-05  
; PRIOR APPLICATION NUMBER: US 60/303,899  
; PRIOR FILING DATE: 2001-07-09  
; PRIOR APPLICATION NUMBER: US 60/316,362  
; PRIOR FILING DATE: 2001-08-31  
; NUMBER OF SEQ ID NOS: 8603  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5457  
; LENGTH: 3880  
; TYPE: DNA  
; ORGANISM: Aspergillus fumigatus  
US-10-128-714-5457

Query Match 86.3%; Score 16.4; DB 5; Length 3880;  
Best Local Similarity 94.4%; Pred. No. 2.1e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGAG 18  
||||| |||||||  
Db 2761 GGGTCAGTCTGGCTGAG 2778

RESULT 11  
US-10-205-823-334/c  
; Sequence 334, Application US/10205823  
; Publication No. US20030108963A1  
; GENERAL INFORMATION:  
; APPLICANT: Schlegel, Robert  
; APPLICANT: Monahan, John E.  
; APPLICANT: Endege, Wilson O.  
; APPLICANT: Gannavarapu, Manjula  
; APPLICANT: Gorbacheva, Bella  
; APPLICANT: Hoersch, Sebastian  
; APPLICANT: Kamatkar, Shubhangi  
; APPLICANT: Wonsley, Angela M.  
; APPLICANT: Glatt, Karen  
; APPLICANT: Zhao, Xumei  
; APPLICANT: Anderson, Dustin  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND  
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER  
; FILE REFERENCE: MRI-044  
; CURRENT APPLICATION NUMBER: US/10/205,823  
; CURRENT FILING DATE: 2002-07-25  
; PRIOR APPLICATION NUMBER: 60/307,982  
; PRIOR FILING DATE: 2001-07-25  
; PRIOR APPLICATION NUMBER: 60/314,356  
; PRIOR FILING DATE: 2001-08-22  
; PRIOR APPLICATION NUMBER: 60/325,020  
; PRIOR FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 60/341,746  
; PRIOR FILING DATE: 2001-12-12  
; PRIOR APPLICATION NUMBER: 60/362,158

```
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 334
; LENGTH: 11102
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-205-823-334

Query Match      86.3%; Score 16.4; DB 5; Length 11102;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGTCTCTCGGCTGAGC 19
   |||||
Db 2334 GGGTTTCTCGGCTGAGC 2317

RESULT 12
US-10-788-792-18/c
; Sequence 18, Application US/10788792
; Publication No. US20040191819A1
; GENERAL INFORMATION:
; APPLICANT: Bayer Pharmaceuticals Corporation
; APPLICANT: Eveleigh, Deepa
; APPLICANT: Bigwood, Douglas
; TITLE OF INVENTION: EXPRESSION PROFILES FOR BREAST CANCER AND METHODS OF USE
; FILE REFERENCE: 5152
; CURRENT APPLICATION NUMBER: US/10/788,792
; CURRENT FILING DATE: 2004-02-27
; PRIOR APPLICATION NUMBER: US 60/450,655
; PRIOR FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 254
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18
; LENGTH: 11102
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-788-792-18

Query Match      86.3%; Score 16.4; DB 8; Length 11102;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGTCTCTCGGCTGAGC 19
   |||||
Db 2334 GGGTTTCTCGGCTGAGC 2317

RESULT 13
US-11-051-454-334/c
; Sequence 334, Application US/11051454
; Publication No. US20050191673A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbacheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Wonsey, Angela M.
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dustin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/11/051,454
; CURRENT FILING DATE: 2005-02-04
; PRIOR APPLICATION NUMBER: US/10/205,823
; PRIOR FILING DATE: 2002-07-25
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; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 334
; LENGTH: 11102
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-051-454-334

Query Match      86.3%; Score 16.4; DB 10; Length 11102;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGTCTCTCGGCTGAGC 19
   |||||
Db 2334 GGGTTTCTCGGCTGAGC 2317

RESULT 14
US-10-341-434-130/c
; Sequence 130, Application US/10341434
; Publication No. US20030215835A1
; GENERAL INFORMATION:
; APPLICANT: Origene Technologies
; TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes
; FILE REFERENCE: 9U 204 205 R1
; CURRENT APPLICATION NUMBER: US/10/341,434
; CURRENT FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 60/348,164
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: US 60/348,119
; PRIOR FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 130
; LENGTH: 11283
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (145)..(3138)
; OTHER INFORMATION:
US-10-341-434-130

Query Match      86.3%; Score 16.4; DB 6; Length 11283;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGTCTCTCGGCTGAGC 19
   |||||
Db 2334 GGGTTTCTCGGCTGAGC 2317

RESULT 15
US-10-087-192-211
; Sequence 211, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
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; CURRENT FILING DATE: 2002-03-01  
; PRIOR APPLICATION NUMBER: US 09/747,377  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 2059  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 211  
; LENGTH: 28562  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)-(28562)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-087-192-211

Query Match 86.3%; Score 16.4; DB 5; Length 28562;  
Best Local Similarity 94.4%; Pred. No. 1.7e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGAG 18  
| | | | | | | | | | | | | | | | | | | | | |  
Db 8021 GAGGTCTGTCTGGCTGAG 8038

RESULT 16  
US-10-741-600-17792  
; Sequence 17792, Application US/10741600  
; Publication No. US20050026169A1  
; GENERAL INFORMATION:  
; APPLICANT: CARGILL, Michele et al.  
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001499  
; CURRENT APPLICATION NUMBER: US/10/741.600  
; CURRENT FILING DATE: 2003-12-22  
; NUMBER OF SEQ ID NOS: 73997  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 17792  
; LENGTH: 87001  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-741-600-17792

Query Match 86.3%; Score 16.4; DB 8; Length 87001;  
Best Local Similarity 94.4%; Pred. No. 1.5e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGAGC 19  
| | | | | | | | | | | | | | | | | | | | | |  
Db 57624 GGGTCTGTCTGGCTGAGC 57641

RESULT 17  
US-09-925-065A-740811/c  
; Sequence 740811, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16

; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 740811  
; LENGTH: 644  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-740811

Query Match 84.2%; Score 16; DB 4; Length 644;  
Best Local Similarity 100.0%; Pred. No. 4.1e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGTCTGGCTGAGC 19  
| | | | | | | | | | | | | | | | | | | | | |  
Db 86 GTCTGTCTGGCTGAGC 71

RESULT 18  
US-09-835-976B-83  
; Sequence 83, Application US/09835976B  
; Publication No. US20030027983A1  
; GENERAL INFORMATION:  
; APPLICANT: Mount, David B.  
; APPLICANT: Delpire, Eric  
; APPLICANT: Gamba, Gerardo  
; APPLICANT: Alfred L. George, Jr.  
; TITLE OF INVENTION: PURIFIED AND ISOLATED POTASSIUM-CHLORIDE COTRANSPORTER NUCLEIC AC  
; TITLE OF INVENTION: POLYPEPTIDES AND  
; TITLE OF INVENTION: THERAPEUTIC AND SCREENING METHODS USING SAME  
; FILE REFERENCE: Attorney Docket No. US20030027983A1 1242-26-2  
; CURRENT APPLICATION NUMBER: US/09/835,976B  
; CURRENT FILING DATE: 2001-04-16  
; NUMBER OF SEQ ID NOS: 131  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 83  
; LENGTH: 2168  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-835-976B-83

Query Match 84.2%; Score 16; DB 3; Length 2168;  
Best Local Similarity 100.0%; Pred. No. 3.6e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGTCTGTCTGGCTGAG 18  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1286 GGTCTGTCTGGCTGAG 1301

RESULT 19  
US-10-322-696-41  
; Sequence 41, Application US/10322696  
; Publication No. US20040166490A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David W.  
; APPLICANT: Malandro, Marc  
; TITLE OF INVENTION: NOVEL THERAPEUTIC TARGETS IN CANCER  
; FILE REFERENCE: 529452001200  
; CURRENT APPLICATION NUMBER: US/10/322,696  
; CURRENT FILING DATE: 2003-10-17  
; NUMBER OF SEQ ID NOS: 186  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 41  
; LENGTH: 3170  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-322-696-41

Query Match 84.2%; Score 16; DB 7; Length 3170;  
Best Local Similarity 100.0%; Pred. No. 3.4e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY      3 GGTCTGCTGGCTGAG 18
Db      2295 GGTCTGCTGGCTGAG 2310

RESULT 20
US-09-835-976B-1
; Sequence 1, Application US/09835976B
; Publication No. US20030027983A1
; GENERAL INFORMATION:
; APPLICANT: Mount, David B.
; APPLICANT: Delpire, Eric
; APPLICANT: Gamba, Gerardo
; APPLICANT: Alfred L. George, Jr.
; TITLE OF INVENTION: PURIFIED AND ISOLATED POTASSIUM-CHLORIDE COTRANSPORTER NUCLEIC ACIDS
; TITLE OF INVENTION: POLYPEPTIDES AND
; TITLE OF INVENTION: THERAPEUTIC AND SCREENING METHODS USING SAME
; FILE REFERENCE: Attorney Docket No. US20030027983A1 1242-26-2
; CURRENT FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 5239
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)...(3253)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (161)
; OTHER INFORMATION: n=a or c, Xaa=Leu or Ile
; NAME/KEY: misc_feature
; LOCATION: (260)
; OTHER INFORMATION: n=a or t, Xaa=Leu or Ile
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3086)
; OTHER INFORMATION: n=a or c, Xaa=Leu or Ile
US-09-835-976B-1

Query Match      84.2%; Score 16; DB 3; Length 5239;
Best Local Similarity 100.0%; Pred. No. 3.2e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GGTCTGCTGGCTGAG 18
Db      4357 GGTCTGCTGGCTGAG 4372

RESULT 21
US-10-276-774-971
; Sequence 971, Application US/10276774
; Publication No. US20040053245A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; APPLICANT: Tang, Y, Tom et al
; TITLE OF INVENTION: NOVEL THERAPEUTIC TARGETS IN CANCER
; FILE REFERENCE: 529452001200
; CURRENT FILING DATE: 2003-10-17
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 40
; LENGTH: 32351
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(32351)
; OTHER INFORMATION: n = A,T,C or G
US-10-322-696-40

Query Match      84.2%; Score 16; DB 7; Length 32351;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GGTCTGCTGGCTGAG 18
Db      21476 GGTCTGCTGGCTGAG 21491

RESULT 24
```

```
US-11-036-317-195529/c
; Sequence 195529, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 195529
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-195529

Query Match      83.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 7.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGGTCTGCTGGCTGAGC 19
Db      20 GGACTCTGCTGGCTGAGC 2

RESULT 25
US-11-036-317-314563/c
; Sequence 314563, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 314563
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-314563

Query Match      83.2%; Score 15.8; DB 10; Length 25;
Best Local Similarity 89.5%; Pred. No. 7.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGGTCTGCTGGCTGAGC 19
Db      19 GGACTCTGCTGGCTGAGC 1

RESULT 26
US-10-437-963-26474
; Sequence 26474, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
```

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; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 26474
; LENGTH: 446
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_31260C.1
US-10-437-963-26474

Query Match      83.2%; Score 15.8; DB 7; Length 446;
Best Local Similarity 89.5%; Pred. No. 5.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGGTCTGCTGGCTGAGC 19
Db      79 GGGGTCTGCTGGCTGAGC 97

RESULT 27
US-09-925-065A-529831/c
; Sequence 529831, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 529831
; LENGTH: 483
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-529831

Query Match      83.2%; Score 15.8; DB 4; Length 483;
Best Local Similarity 89.5%; Pred. No. 5.3e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGGTCTGCTGGCTGAGC 19
Db      296 GAGGTTTGTCTGGCTGAGC 278

RESULT 28
US-09-925-065A-25140/c
; Sequence 25140, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
```

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; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; CURRENT APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25140
; LENGTH: 562
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-25140

Query Match      83.2%; Score 15.8; DB 4; Length 562;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
   |||||||
Db 559 GGTGTCTGTCTGGCTGAGC 541

RESULT 29
US-10-972-079-17638/c
; Sequence 17638, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17638
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894225956_1
US-10-972-079-17638

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
   |||||||
Db 236 GGGGTCTGTCTGGCTGAGC 218

RESULT 30
US-10-972-079-17639/c
; Sequence 17639, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17638
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894225956_1
US-10-972-079-17638

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
   |||||||
Db 236 GGGGTCTGTCTGGCTGAGC 218

RESULT 31
US-10-972-079-20707/c
; Sequence 20707, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20707
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894231510_8
US-10-972-079-20707

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
   |||||||
Db 90 GAGGTCTGTCTGGCTGAGC 72

RESULT 32
US-10-027-632-22844
; Sequence 22844, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
```

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; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17639
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894225956_2
US-10-972-079-17639

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
   |||||||
Db 148 GGGGTCTGTCTGGCTGAGC 130

RESULT 31
US-10-972-079-20707/c
; Sequence 20707, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER
; FILE REFERENCE: MM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20707
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894231510_8
US-10-972-079-20707

Query Match      83.2%; Score 15.8; DB 9; Length 600;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGAGC 19
   |||||||
Db 90 GAGGTCTGTCTGGCTGAGC 72

RESULT 32
US-10-027-632-22844
; Sequence 22844, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
```

```
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22844
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22844

Query Match      83.2%; Score 15.8; DB 5; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGAGC 19
   ||| ||||| ||||| |||
Db 270 GGGCTCTGCTGGCTCAGC 288

RESULT 33
US-10-027-632-22845
; Sequence 22845, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22845
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22845

Query Match      83.2%; Score 15.8; DB 5; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGAGC 19
   ||| ||||| ||||| |||
Db 270 GGGCTCTGCTGGCTCAGC 288

RESULT 34
US-10-027-632-22844
; Sequence 22844, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22845
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22845

Query Match      83.2%; Score 15.8; DB 5; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGAGC 19
   ||| ||||| ||||| |||
Db 270 GGGCTCTGCTGGCTCAGC 288

RESULT 35
US-10-027-632-22845
; Sequence 22845, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22845
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22845

Query Match      83.2%; Score 15.8; DB 6; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22844
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22844

Query Match      83.2%; Score 15.8; DB 6; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGAGC 19
   ||| ||||| ||||| |||
Db 270 GGGCTCTGCTGGCTCAGC 288

RESULT 35
US-10-027-632-22845
; Sequence 22845, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22845
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-22845

Query Match      83.2%; Score 15.8; DB 6; Length 684;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```



```
Qy 1 GGGGTCTGTGGCTGAGC 19
    ||| ||| ||| ||| ||| ||| |||
Db 270 GGGGTCTGTGGCTGAGC 288

RESULT 36
US-10-302-172-408
; Sequence 408, Application US/10302172
; Publication No. US20040053250A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Drmanac, Radje T.
; TITLE OF INVENTION: No. US20040053250A1 Arginine-rich Protein-like Nucleic Acids ar
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 803 1CNCp
; CURRENT APPLICATION NUMBER: US/10/302,172
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/225,251
; PRIOR FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: PCT US02/05095
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 09/799,451
; PRIOR FILING DATE: 2001-03-05
; NUMBER OF SEQ ID NOS: 950
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 408
; LENGTH: 687
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (22)..(489)
US-10-302-172-408

Query Match 83.2%; Score 15.8; DB 7; Length 687;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTGGCTGAGC 19
    ||| ||| ||| ||| ||| ||| |||
Db 196 GGGGTCTGTGGCTGAGC 214

RESULT 37
US-10-672-632-283313/c
; Sequence 283313, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 283313
; LENGTH: 719
; TYPE: DNA
; ORGANISM: Human
US-10-672-632-283313/c

Query Match 83.2%; Score 15.8; DB 6; Length 719;
Best Local Similarity 89.5%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTGGCTGAGC 19
    ||| ||| ||| ||| ||| ||| |||
Db 530 GAGGTTTGTCTGGCTGAGC 512

RESULT 39
US-10-027-632-149183
; Sequence 149183, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 283313
```

```

; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 149183
;   LENGTH: 740
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-149183

```

Query Match 83.2%; Score 15.8; DB 5; Length 740;  
Best Local Similarity 89.5%; Pred. NO. 5.1e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGAGC 19  
Db 280 GGGCTCTGTCTGGCTCAGC 298

```

RESULT 40
US-10-027-632-149183
; Sequence 149183, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Polymorphisms in the
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 149183
; LENGTH: 740
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-149183

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Query Match 83.2%; Score 15.8; DB 6; Length 740;  
Best Local Similarity 89.5%; Pred. NO. 5.1e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy            1 GGGTCTGTCTGGCTGAGC 19  
               ||| ||||| ||||| |||||  
Db            280 GGGCTCTGTCTGGCTCAGC 298

RESULT 41  
US-09-815-242-7949 ; Sequence 7949, Application US/09815242  
; Patent No. US20020061569A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert

```

1  APPLICANT: Ohlsen, Kari L.
2  APPLICANT: Zyskind, Judith W.
3  APPLICANT: Wall, Daniel
4  APPLICANT: Trawick, John D.
5  APPLICANT: Carr, Grant J.
6  APPLICANT: Yamamoto, Robert T.
7  APPLICANT: Xu, H. Howard
8  TITLE OF INVENTION: Identification of Essential Genes in
9  TITLE OF INVENTION: Prokaryotes
10 FILE REFERENCE: ELITRA.011A
11 CURRENT APPLICATION NUMBER: US/09/815,242
12 CURRENT FILING DATE: 2001-03-21
13 PRIOR APPLICATION NUMBER: 60/131,078
14 PRIOR FILING DATE: 2000-03-21
15 PRIOR APPLICATION NUMBER: 60/206,848
16 PRIOR FILING DATE: 2000-05-23
17 PRIOR APPLICATION NUMBER: 60/207,727
18 PRIOR FILING DATE: 2000-05-26
19 PRIOR APPLICATION NUMBER: 60/242,578
20 PRIOR FILING DATE: 2000-10-23
21 PRIOR APPLICATION NUMBER: 60/253,625
22 PRIOR FILING DATE: 2000-11-27
23 PRIOR APPLICATION NUMBER: 60/257,931
24 PRIOR FILING DATE: 2000-12-22
25 PRIOR APPLICATION NUMBER: 60/269,308
26 PRIOR FILING DATE: 2001-02-16
27 NUMBER OF SEQ ID NOS: 14110
28 SOFTWARE: FastSEQ for Windows Version 4.0
29 SEQ ID NO 7949
30 LENGTH: 801
31 TYPE: DNA
32 ORGANISM: Pseudomonas aeruginosa
33 FEATURE:
34 NAME/KEY: CDS
35 LOCATION: (1)...(801)
36 US-09-815-242-7949

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Query Match	83.2%	Score 15.8;	DB 3;	Length 801;
Best Local Similarity	89.5%	Pred. No. 5e+02;		
Matches 17;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

QY 1 GGGTCTGTCTGGCTGAGC 19  
|||  
Db 346 GGGTCTGGCTGGCGGAGC 364

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RESULT 42
US-10-282-122A-30532
; Sequence 30532, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Esse
; FILE REFERENCE: EUI/TRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26

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; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 30532  
; LENGTH: 801  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-10-282-122A-30532

Query Match 83.2%; Score 15.8; DB 7; Length 801;  
Best Local Similarity 89.5%; Pred. No. 5e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAGC 19  
|||||  
DB 346 GGGGTCGTGGCTGGGAGC 364

## RESULT 43

US-10-369-493-34166  
; Sequence 34166, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 34166  
; LENGTH: 829  
; TYPE: DNA  
; ORGANISM: Sphingomonas aromaticivorans  
US-10-369-493-34166

Query Match 83.2%; Score 15.8; DB 6; Length 829;  
Best Local Similarity 89.5%; Pred. No. 5e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAGC 19  
|||||  
DB 225 GGGGTCGTGACTGGCTGGGC 243

## RESULT 44

US-10-798-084-2/c  
; Sequence 2, Application US/10798084  
; Publication No. US20040152144A1  
; GENERAL INFORMATION:  
; APPLICANT: Salceda, Susan  
; APPLICANT: Sun, Yongming  
; APPLICANT: Recipon, Herve

; TITLE OF INVENTION: A Novel Method of Diagnosing, Monitoring, Staging,  
; FILE REFERENCE: DEX-0085  
; CURRENT APPLICATION NUMBER: US/10/798,084  
; CURRENT FILING DATE: 2004-03-11  
; PRIOR APPLICATION NUMBER: US/09/664,249  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US99/16811  
; PRIOR FILING DATE: 1999-07-22  
; PRIOR APPLICATION NUMBER: 60/095,232  
; PRIOR FILING DATE: 1998-08-04  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 1066  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (729)..(813)  
; OTHER INFORMATION: a, c, g or t  
US-10-798-084-2

Query Match 83.2%; Score 15.8; DB 7; Length 1066;  
Best Local Similarity 89.5%; Pred. No. 4.9e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAGC 19  
|||||  
DB 530 GGGGTCCTTCTGGCTCAGC 512

## RESULT 45

US-10-936-626-72/c  
; Sequence 72, Application US/10936626  
; Publication No. US20050106644A1  
; GENERAL INFORMATION:  
; APPLICANT: Cairns, Belinda  
; APPLICANT: Chen, Ruihuan  
; APPLICANT: Frantz, Gretchen  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Koepfen, Hartmut  
; APPLICANT: Phillips, Heidi S.  
; APPLICANT: Polakis, Paul  
; APPLICANT: Spencer, Susan D.  
; APPLICANT: Smith, Victoria  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wu, Thomas D.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Compositions and Methods for the Diagnosis and  
; FILE REFERENCE: P5001R1P1  
; CURRENT APPLICATION NUMBER: US/10/936,626  
; CURRENT FILING DATE: 2004-09-08  
; PRIOR APPLICATION NUMBER: US 10/872,991  
; PRIOR FILING DATE: 2004-06-21  
; PRIOR APPLICATION NUMBER: US 10/872,972  
; PRIOR FILING DATE: 2004-06-21  
; PRIOR APPLICATION NUMBER: US 10/241,220  
; PRIOR FILING DATE: 2002-09-11  
; PRIOR APPLICATION NUMBER: US 10/177,488  
; PRIOR FILING DATE: 2002-06-19  
; PRIOR APPLICATION NUMBER: US 60/299,500  
; PRIOR FILING DATE: 2001-06-20  
; PRIOR APPLICATION NUMBER: US 60/301,880  
; PRIOR FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: US 60/323,268  
; PRIOR FILING DATE: 2001-09-18  
; PRIOR APPLICATION NUMBER: US 60/557,116  
; PRIOR FILING DATE: 2004-03-26  
; PRIOR APPLICATION NUMBER: US 60/598,899  
; PRIOR FILING DATE: 2004-08-04  
; NUMBER OF SEQ ID NOS: 154



; NUMBER OF SEQ ID NOS: 1104  
; SOFTWARE: pc\_FL\_genes Version 1.0  
; SEQ ID NO 142  
; LENGTH: 1510  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (60)..(884)  
US-10-117-722-142

Query Match 83.2%; Score 15.8; DB 6; Length 1510;  
Best Local Similarity 89.5%; Pred. No. 4.7e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGGTGAGC 19  
Db 104 GGGGTCTGTCTGGGTGAGC 86

## RESULT 49

US-10-122-851-142/c  
; Sequence 142, Application US/10122851  
; Publication No. US20050239060A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Liu, Chenghua  
; APPLICANT: Asundi, Vinod  
; APPLICANT: Ren, Feiyan  
; APPLICANT: Dmanac, Radoje T.  
; TITLE OF INVENTION: Novel Nucleic Acids and  
; FILE OF INVENTION: Polypeptides  
; FILE REFERENCE: 784CIP2BDV3  
; CURRENT APPLICATION NUMBER: US/10/122,851  
; CURRENT FILING DATE: 2002-04-12  
; PRIOR APPLICATION NUMBER: 09/620,312  
; PRIOR FILING DATE: 2000-07-19  
; PRIOR APPLICATION NUMBER: 09/552,317  
; PRIOR FILING DATE: 2000-04-25  
; PRIOR APPLICATION NUMBER: 09/488,725  
; PRIOR FILING DATE: 2000-01-21  
; NUMBER OF SEQ ID NOS: 1104  
; SOFTWARE: pc\_FL\_genes Version 1.0  
; SEQ ID NO 142  
; LENGTH: 1510  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (60)..(884)  
US-10-122-851-142

Query Match 83.2%; Score 15.8; DB 9; Length 1510;  
Best Local Similarity 89.5%; Pred. No. 4.7e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGGTGAGC 19  
Db 104 GGGGTCTGTCTGGGTGAGC 86

## RESULT 50

US-09-925-065A-546490  
; Sequence 546490, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096

; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: Fast-SEQ for Windows Version 4.0  
; SEQ ID NO 546490  
; LENGTH: 1577  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-546490

Query Match 83.2%; Score 15.8; DB 4; Length 1577;  
Best Local Similarity 89.5%; Pred. No. 4.6e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGGTGAGC 19  
Db 148 GGGGTCTGTGGGTGAGC 166

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Job time : 400.495 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:06:24 ; Search time 385.949 Seconds  
(without alignments)  
39.844 Million cell updates/sec

Title: US-09-869-169C-12

Perfect score: 19

Sequence: 1 999gtctgtgctgagc 19

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 6038814 seqs, 404674181 residues

Total number of hits satisfying chosen parameters: 12077628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications NA.New.\*

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- 2: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*
- 5: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*
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- 9: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq3.\*
- 10: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	15.8	83.2	1606	6	US-10-750-185-43749
2	15.8	83.2	1606	6	US-10-750-623-43749
3	15.8	83.2	164527	7	US-11-121-086-71
4	15.4	81.1	1460	6	US-10-750-185-32137
5	15.4	81.1	1460	6	US-10-750-623-32137
6	15	78.9	201	6	US-10-995-561-13370
7	15	78.9	992	6	US-10-750-185-55529
8	15	78.9	992	6	US-10-750-623-55529
9	15	78.9	1416	6	US-10-995-561-511
10	15	78.9	1507	6	US-10-995-561-512
11	15	78.9	5841	7	US-11-136-527-676
12	15	78.9	14271	6	US-10-995-561-13370
13	15	78.9	14769	6	US-10-995-561-13507
14	15	78.9	40000	6	US-10-995-561-13510
15	15	78.9	57073	6	US-10-995-561-13275
16	14.8	77.9	26	6	US-10-310-914A-166285
17	14.8	77.9	201	6	US-10-995-561-81215
18	14.8	77.9	201	6	US-10-995-561-81293
19	14.8	77.9	201	6	US-10-995-561-81570
20	14.8	77.9	201	6	US-10-995-561-81629
21	14.8	77.9	201	6	US-10-995-561-81629
22	14.8	77.9	600	7	US-11-136-527-7822
23	14.8	77.9	780	6	US-10-453-372-815

C 97	14.2	74.7	2642	6	US-10-750-185-44717	Sequence 44717, A	C 170	13.8	72.6	201	6	US-10-995-561-71744	Sequence 71744, A
C 98	14.2	74.7	2642	6	US-10-750-623-44717	Sequence 44717, A	C 171	13.8	72.6	201	6	US-10-995-561-71755	Sequence 71755, A
C 99	14.2	74.7	2652	6	US-10-750-185-45799	Sequence 45799, A	C 172	13.8	72.6	201	6	US-10-995-561-71781	Sequence 71781, A
C 100	14.2	74.7	2652	6	US-10-750-623-45799	Sequence 45799, A	C 173	13.8	72.6	201	6	US-10-995-561-71807	Sequence 71807, A
C 101	14.2	74.7	2754	6	US-10-947-249-161	Sequence 4017, App	C 174	13.8	72.6	201	6	US-10-995-561-81157	Sequence 81157, A
C 102	14.2	74.7	2992	7	US-11-136-527-4047	Sequence 4047, App	C 175	13.8	72.6	201	6	US-10-995-561-81582	Sequence 81582, A
C 103	14.2	74.7	3018	6	US-10-750-185-60261	Sequence 60261, A	C 176	13.8	72.6	201	7	US-11-124-368A-3179	Sequence 3179, App
C 104	14.2	74.7	3018	6	US-10-750-623-60261	Sequence 60261, A	C 177	13.8	72.6	201	7	US-11-124-368A-11035	Sequence 11035, A
C 105	14.2	74.7	3297	7	US-11-027-964-1	Sequence 1, Appli	C 178	13.8	72.6	201	7	US-11-124-368A-20307	Sequence 20307, A
C 106	14.2	74.7	4457	6	US-10-775-169-259	Sequence 559, App	C 179	13.8	72.6	684	6	US-10-948-429A-5	Sequence 5, Appli
C 107	14.2	74.7	5331	7	US-11-136-527-2528	Sequence 2528, App	C 180	13.8	72.6	785	6	US-10-750-185-38882	Sequence 38882, A
C 108	14.2	74.7	5468	6	US-10-821-234-49	Sequence 49, Appl	C 181	13.8	72.6	765	6	US-10-750-623-38882	Sequence 38882, A
C 109	14.2	74.7	8275	7	US-11-136-527-1981	Sequence 1981, App	C 182	13.8	72.6	765	6	US-10-750-185-64533	Sequence 64533, A
C 110	14.2	74.7	13672	7	US-11-055-035-2	Sequence 2, Appli	C 183	13.8	72.6	783	6	US-10-750-623-64533	Sequence 64533, A
C 111	14.2	74.7	21777	7	US-11-027-964-2	Sequence 2, Appli	C 184	13.8	72.6	836	6	US-10-750-185-28171	Sequence 28171, A
C 112	14.2	74.7	21963	6	US-10-995-561-13297	Sequence 13297, A	C 185	13.8	72.6	836	6	US-10-750-623-28171	Sequence 28171, A
C 113	14.2	74.7	63984	7	US-11-121-086-26	Sequence 26, Appl	C 186	13.8	72.6	932	6	US-10-750-185-60360	Sequence 60360, A
C 114	14.2	74.7	86081	6	US-10-995-561-13246	Sequence 13246, A	C 187	13.8	72.6	932	6	US-10-750-623-60360	Sequence 60360, A
C 115	14.2	74.7	88421	7	US-11-205-109-1	Sequence 1, Appli	C 188	13.8	72.6	977	6	US-10-750-185-38783	Sequence 38783, A
C 116	14.2	74.7	100000	7	US-11-124-368A-2899	Sequence 2899, App	C 189	13.8	72.6	977	6	US-10-750-623-38783	Sequence 38783, A
C 117	14.2	74.7	120096	7	US-11-121-086-24	Sequence 24, Appl	C 190	13.8	72.6	1023	6	US-10-750-185-36685	Sequence 36685, A
C 118	14.2	74.7	153376	7	US-11-121-086-5	Sequence 5, Appli	C 191	13.8	72.6	1023	6	US-10-750-623-36685	Sequence 36685, A
C 119	14.2	74.7	157224	7	US-11-112-308-51	Sequence 51, Appl	C 192	13.8	72.6	1028	6	US-10-750-185-39409	Sequence 39409, A
C 120	14.2	74.7	163162	7	US-11-121-086-66	Sequence 66, Appl	C 193	13.8	72.6	1028	6	US-10-750-623-39409	Sequence 39409, A
C 121	14.2	74.7	169725	7	US-11-121-086-63	Sequence 63, Appl	C 194	13.8	72.6	1038	6	US-10-750-185-38231	Sequence 38231, A
C 122	14.2	74.7	170189	7	US-11-112-308-50	Sequence 50, Appl	C 195	13.8	72.6	1038	6	US-10-750-623-38231	Sequence 38231, A
C 123	14.2	74.7	170837	7	US-11-121-086-97	Sequence 97, Appl	C 196	13.8	72.6	1374	6	US-10-750-185-51706	Sequence 51706, A
C 124	14.2	74.7	172543	7	US-11-121-086-6	Sequence 6, Appli	C 197	13.8	72.6	1374	6	US-10-750-623-51706	Sequence 51706, A
C 125	14.2	74.7	380749	6	US-10-995-561-13216	Sequence 13216, A	C 198	13.8	72.6	1386	6	US-10-750-185-28197	Sequence 28197, A
C 126	14	73.7	19	8	US-11-101-244-552646	Sequence 552646, A	C 199	13.8	72.6	1386	6	US-10-750-623-28197	Sequence 28197, A
C 127	14	73.7	23	6	US-11-083-784-552646	Sequence 961492, A	C 200	13.8	72.6	1481	6	US-10-750-185-39254	Sequence 39254, A
C 128	14	73.7	23	6	US-10-310-914A-961492	Sequence 961492, A	C 201	13.8	72.6	1481	6	US-10-750-623-39254	Sequence 39254, A
C 129	14	73.7	25	7	US-11-121-849-180814	Sequence 180814, A	C 202	13.8	72.6	1486	6	US-10-750-185-38565	Sequence 38565, A
C 130	14	73.7	25	7	US-11-121-849-289285	Sequence 289285, A	C 203	13.8	72.6	1486	6	US-10-750-623-38565	Sequence 38565, A
C 131	14	73.7	25	7	US-11-121-849-564974	Sequence 564974, A	C 204	13.8	72.6	1506	6	US-10-966-483-21	Sequence 21, Appl
C 132	14	73.7	25	7	US-11-121-849-564976	Sequence 564976, A	C 205	13.8	72.6	1506	7	US-11-021-441-5	Sequence 5, Appli
C 133	14	73.7	25	7	US-11-121-849-564976	Sequence 564976, A	C 206	13.8	72.6	1528	7	US-11-136-527-2678	Sequence 2678, App
C 134	14	73.7	25	7	US-11-121-849-565548	Sequence 565548, A	C 207	13.8	72.6	1537	6	US-10-750-185-56129	Sequence 56129, A
C 135	14	73.7	25	7	US-11-121-849-565549	Sequence 565549, A	C 208	13.8	72.6	1537	6	US-10-750-623-56129	Sequence 56129, A
C 136	14	73.7	25	7	US-11-121-849-565550	Sequence 565550, A	C 209	13.8	72.6	1606	6	US-10-750-185-43749	Sequence 43749, A
C 137	14	73.7	25	7	US-11-121-849-565551	Sequence 565551, A	C 210	13.8	72.6	1606	6	US-10-750-623-43749	Sequence 43749, A
C 138	14	73.7	25	7	US-11-121-849-565552	Sequence 565552, A	C 211	13.8	72.6	1629	7	US-11-103-957-60	Sequence 60, Appl
C 139	14	73.7	25	7	US-11-121-849-565553	Sequence 565553, A	C 212	13.8	72.6	1650	7	US-11-103-957-75	Sequence 75, Appl
C 140	14	73.7	25	7	US-11-121-849-565554	Sequence 565554, A	C 213	13.8	72.6	1689	6	US-10-966-483-24	Sequence 24, Appl
C 141	14	73.7	25	7	US-11-136-527-233737	Sequence 233737, A	C 214	13.8	72.6	1689	7	US-11-021-441-8	Sequence 8, Appli
C 142	14	73.7	600	7	US-11-136-527-4948	Sequence 4948, App	C 215	13.8	72.6	1787	6	US-10-750-185-25467	Sequence 25467, A
C 143	14	73.7	617	7	US-11-136-527-852	Sequence 852, App	C 216	13.8	72.6	1787	6	US-10-750-623-25467	Sequence 25467, A
C 144	14	73.7	948	6	US-10-750-623-56254	Sequence 56254, A	C 217	13.8	72.6	1802	6	US-10-750-185-48452	Sequence 48452, A
C 145	14	73.7	948	6	US-10-750-185-43744	Sequence 43744, A	C 218	13.8	72.6	1802	6	US-10-750-623-48452	Sequence 48452, A
C 146	14	73.7	1068	6	US-10-750-185-43744	Sequence 43744, A	C 219	13.8	72.6	1827	6	US-10-750-185-61401	Sequence 61401, A
C 147	14	73.7	1068	6	US-10-750-623-43744	Sequence 43744, A	C 220	13.8	72.6	1827	6	US-10-750-623-61401	Sequence 61401, A
C 148	14	73.7	1344	6	US-10-750-185-61704	Sequence 61704, A	C 221	13.8	72.6	1835	6	US-10-750-185-58591	Sequence 58591, A
C 149	14	73.7	1344	6	US-10-750-623-61704	Sequence 61704, A	C 222	13.8	72.6	1835	6	US-10-750-623-58591	Sequence 58591, A
C 150	14	73.7	1619	6	US-10-750-185-34411	Sequence 34411, A	C 223	13.8	72.6	1885	6	US-10-750-185-47018	Sequence 47018, A
C 151	14	73.7	1619	6	US-10-750-623-34411	Sequence 34411, A	C 224	13.8	72.6	1885	6	US-10-750-623-47018	Sequence 47018, A
C 152	14	73.7	1678	6	US-10-750-185-43745	Sequence 43745, A	C 225	13.8	72.6	2031	6	US-10-750-185-40715	Sequence 40715, A
C 153	14	73.7	1678	6	US-10-750-623-43745	Sequence 43745, A	C 226	13.8	72.6	2031	6	US-10-750-623-40715	Sequence 40715, A
C 154	14	73.7	2919	6	US-10-750-185-61405	Sequence 61405, App	C 227	13.8	72.6	2111	6	US-10-947-249-8	Sequence 8, Appli
C 155	14	73.7	3137	6	US-10-955-054A-180	Sequence 180, App	C 228	13.8	72.6	2148	6	US-10-836-390-1	Sequence 1, Appli
C 156	14	73.7	3137	6	US-10-750-623-61405	Sequence 61405, A	C 229	13.8	72.6	2148	6	US-10-750-185-59728	Sequence 59728, A
C 157	14	73.7	17004	7	US-11-176-253-1	Sequence 1, Appli	C 230	13.8	72.6	2148	6	US-10-750-623-59728	Sequence 59728, A
C 158	14	73.7	79528	6	US-10-276-233A-6	Sequence 6, Appli	C 231	13.8	72.6	2178	6	US-10-775-169-205	Sequence 205, App
C 159	14	73.7	212716	7	US-11-121-086-95	Sequence 95, Appli	C 232	13.8	72.6	2259	6	US-10-750-185-62051	Sequence 62051, A
C 160	13.8	72.6	25	7	US-11-121-849-323391	Sequence 323391, A	C 233	13.8	72.6	2259	6	US-10-000-688-574	Sequence 574, App
C 161	13.8	72.6	25	7	US-11-121-849-344763	Sequence 344763, A	C 234	13.8	72.6	2427	6	US-11-095-561-279	Sequence 279, App
C 162	13.8	72.6	201	6	US-10-995-561-62009	Sequence 62009, A	C 235	13.8	72.6	2427	6	US-10-995-561-47597	Sequence 47597, A
C 163	13.8	72.6	201	6	US-10-995-561-62030	Sequence 62030, A	C 236	13.8	72.6	2560	6	US-10-750-623-47597	Sequence 47597, A
C 164	13.8	72.6	201	6	US-10-995-561-62124	Sequence 62124, A	C 237	13.8	72.6	2560	6	US-10-750-185-48505	Sequence 48505, A
C 165	13.8	72.6	201	6	US-10-995-561-62169	Sequence 62169, A	C 238	13.8	72.6	2883	6	US-10-750-623-48505	Sequence 48505, A
C 166	13.8	72.6	201	6	US-10-995-561-68127	Sequence 68127, A	C 239	13.8	72.6	2883	6	US-10-966-483-19	Sequence 19, Appl
C 167	13.8	72.6	201	6	US-10-995-561-68147	Sequence 68147, A	C 240	13.8	72.6	3105	6	US-11-021-441-3	Sequence 3, Appli
C 168	13.8	72.6	201	6	US-10-995-561-68169	Sequence 68169, A	C 241	13.8	72.6	3105	7	US-11-021-441-3	Sequence 3, Appli
C 169	13.8	72.6	201	6	US-10-995-561-68199	Sequence 68199, A	C 242	13.8	72.6	3183	6	US-10-750-185-27999	Sequence 27999, A









c 681	13.2	69.5	3722	6	US-10-750-185-38335	Sequence 38335, A	c 754	13.2	69.5	171162	7	US-11-112-908-38	Sequence 38, Appl
c 682	13.2	69.5	3722	6	US-10-750-623-38335	Sequence 38335, A	c 755	13.2	69.5	171936	6	US-10-933-025-24	Sequence 24, Appl
c 683	13.2	69.5	3748	6	US-10-750-185-39507	Sequence 39507, A	c 756	13.2	69.5	171936	6	US-10-933-025-24	Sequence 24, Appl
c 684	13.2	69.5	3748	6	US-10-750-623-39507	Sequence 39507, A	c 757	13.2	69.5	173602	7	US-11-121-086-25	Sequence 25, Appl
c 685	13.2	69.5	3946	6	US-10-750-185-58542	Sequence 58542, A	c 758	13.2	69.5	177623	7	US-11-112-908-41	Sequence 41, Appl
c 686	13.2	69.5	3946	6	US-10-750-623-58542	Sequence 58542, A	c 759	13.2	69.5	181172	7	US-11-121-086-41	Sequence 41, Appl
c 687	13.2	69.5	3986	6	US-10-750-185-48137	Sequence 48137, A	c 760	13.2	69.5	182303	7	US-11-121-086-45	Sequence 45, Appl
c 688	13.2	69.5	3986	6	US-10-750-623-48137	Sequence 48137, A	c 761	13.2	69.5	187745	7	US-11-121-086-83	Sequence 83, Appl
c 689	13.2	69.5	4016	7	US-11-136-527-3313	Sequence 3313, Ap	c 762	13.2	69.5	193789	7	US-11-112-908-55	Sequence 55, Appl
c 690	13.2	69.5	4068	7	US-11-000-688-68	Sequence 68, Appl	c 763	13.2	69.5	193789	7	US-11-112-908-55	Sequence 55, Appl
c 691	13.2	69.5	4070	7	US-11-000-688-134	Sequence 134, Appl	c 764	13.2	69.5	195998	6	US-10-995-561-13489	Sequence 13489, A
c 692	13.2	69.5	4928	6	US-10-750-185-31365	Sequence 31365, A	c 765	13.2	69.5	199130	6	US-10-995-561-13233	Sequence 13233, A
c 693	13.2	69.5	4928	6	US-10-750-623-31365	Sequence 31365, A	c 766	13.2	69.5	305312	6	US-10-995-561-13233	Sequence 13236, A
c 694	13.2	69.5	5515	7	US-10-517-605-14	Sequence 14, Appl	c 767	13.2	69.5	321876	6	US-10-995-561-13227	Sequence 13227, A
c 695	13.2	69.5	5515	7	US-11-055-309A-2	Sequence 2, Appli	c 768	13.2	69.5	321019	6	US-10-995-561-13204	Sequence 13204, A
c 696	13.2	69.5	5956	7	US-11-136-527-2230	Sequence 2230, Ap	c 769	13.2	69.5	321019	6	US-10-995-561-13204	Sequence 13204, A
c 697	13.2	69.5	5982	7	US-11-034-771-1	Sequence 1, Appli	c 770	13.2	69.5	387780	6	US-10-995-561-13259	Sequence 13259, A
c 698	13.2	69.5	6681	7	US-11-000-688-349	Sequence 349, App	c 771	13.2	69.5	1080000	6	US-10-928-446A-1	Sequence 1, Appli
c 699	13.2	69.5	6890	7	US-11-005-029-1	Sequence 1, Appli	c 772	13.2	69.5	1080000	6	US-10-928-446A-181	Sequence 181, App
c 700	13.2	69.5	6990	7	US-11-000-688-609	Sequence 609, App	c 773	13.2	69.5	1080000	6	US-10-928-446A-183	Sequence 183, App
c 701	13.2	69.5	7584	7	US-11-124-368A-129	Sequence 129, App	c 774	13.2	69.5	1080000	6	US-10-928-446A-185	Sequence 185, App
c 702	13.2	69.5	7587	7	US-11-124-368A-133	Sequence 133, App	c 775	13.2	69.5	1080000	6	US-10-928-446A-187	Sequence 187, App
c 703	13.2	69.5	8268	7	US-11-136-527-3386	Sequence 3386, Ap	c 776	13.2	69.5	1080000	6	US-10-928-446A-189	Sequence 189, App
c 704	13.2	69.5	9578	7	US-11-136-527-3985	Sequence 3985, Ap	c 777	13.2	69.5	1080000	6	US-10-928-446A-191	Sequence 191, App
c 705	13.2	69.5	12726	6	US-10-995-561-13384	Sequence 13384, A	c 778	13.2	69.5	1080000	6	US-10-928-446A-193	Sequence 193, App
c 706	13.2	69.5	13242	6	US-10-995-561-13441	Sequence 13441, A	c 779	13.2	69.5	1080000	6	US-10-928-446A-195	Sequence 195, App
c 707	13.2	69.5	14113	6	US-10-995-561-13405	Sequence 13405, A	c 780	13.2	69.5	1080000	6	US-10-928-446A-197	Sequence 197, App
c 708	13.2	69.5	14896	7	US-11-000-688-946	Sequence 946, App	c 781	13.2	69.5	1080000	6	US-10-928-446A-199	Sequence 199, App
c 709	13.2	69.5	15804	6	US-10-995-561-13294	Sequence 13294, A	c 782	13.2	69.5	1080000	6	US-10-928-446A-201	Sequence 201, App
c 710	13.2	69.5	16643	6	US-10-995-561-13302	Sequence 13302, A	c 783	13.2	69.5	1125000	6	US-10-995-561-13286	Sequence 13286, A
c 711	13.2	69.5	16963	6	US-10-995-561-13467	Sequence 13467, A	c 784	13	68.4	21	6	US-10-310-914A-191886	Sequence 191886,
c 712	13.2	69.5	18238	6	US-10-995-561-13386	Sequence 13386, A	c 785	13	68.4	22	6	US-10-310-914A-361149	Sequence 361149,
c 713	13.2	69.5	19143	6	US-10-995-561-13470	Sequence 13470, A	c 786	13	68.4	23	6	US-10-310-914A-361150	Sequence 361150,
c 714	13.2	69.5	19675	7	US-11-124-368A-2878	Sequence 2878, Ap	c 787	13	68.4	55	7	US-11-075-351-39	Sequence 39, Appl
c 715	13.2	69.5	24446	6	US-10-995-561-13436	Sequence 13436, A	c 788	13	68.4	201	6	US-10-995-561-12647	Sequence 12647, A
c 716	13.2	69.5	29959	6	US-10-995-561-13475	Sequence 13475, A	c 789	13	68.4	201	6	US-10-995-561-20013	Sequence 20013, A
c 717	13.2	69.5	32157	6	US-10-995-561-13352	Sequence 13352, A	c 790	13	68.4	201	6	US-10-995-561-51275	Sequence 51275, A
c 718	13.2	69.5	40000	6	US-10-995-561-13513	Sequence 13513, A	c 791	13	68.4	201	6	US-10-995-561-51365	Sequence 51365, A
c 719	13.2	69.5	40000	6	US-10-995-561-13514	Sequence 13514, A	c 792	13	68.4	201	6	US-10-995-561-51380	Sequence 51380, A
c 720	13.2	69.5	53641	6	US-10-995-561-13238	Sequence 13238, A	c 793	13	68.4	201	6	US-10-995-561-64241	Sequence 64241, A
c 721	13.2	69.5	60754	6	US-10-995-561-13440	Sequence 13440, A	c 794	13	68.4	201	7	US-11-124-368A-6604	Sequence 6604, Ap
c 722	13.2	69.5	67858	6	US-10-995-561-13484	Sequence 13484, A	c 795	13	68.4	201	7	US-11-124-368A-6605	Sequence 6605, Ap
c 723	13.2	69.5	76589	6	US-10-995-561-13322	Sequence 13322, A	c 796	13	68.4	201	7	US-11-124-368A-6871	Sequence 6871, Ap
c 724	13.2	69.5	86131	6	US-10-995-561-13298	Sequence 13298, A	c 797	13	68.4	485	7	US-11-102-240-43	Sequence 43, Appl
c 725	13.2	69.5	91561	7	US-11-124-368A-2896	Sequence 2896, Ap	c 798	13	68.4	537	6	US-10-821-234-643	Sequence 643, App
c 726	13.2	69.5	91576	6	US-10-995-561-13461	Sequence 13461, A	c 799	13	68.4	592	7	US-11-136-527-1164	Sequence 1164, Ap
c 727	13.2	69.5	93112	6	US-10-995-561-13234	Sequence 13234, A	c 800	13	68.4	592	7	US-11-136-527-5260	Sequence 5260, Ap
c 728	13.2	69.5	98560	6	US-10-995-561-13323	Sequence 13323, A	c 801	13	68.4	598	6	US-10-750-185-3845	Sequence 3845, Ap
c 729	13.2	69.5	98560	6	US-10-995-561-13323	Sequence 13323, A	c 802	13	68.4	598	6	US-10-750-623-3845	Sequence 3845, Ap
c 730	13.2	69.5	100000	7	US-11-124-368A-2918	Sequence 2918, Ap	c 803	13	68.4	723	7	US-11-112-908-392	Sequence 392, App
c 731	13.2	69.5	101046	6	US-10-995-561-13330	Sequence 13330, A	c 804	13	68.4	937	6	US-10-750-185-49515	Sequence 49515, A
c 732	13.2	69.5	110608	6	US-10-775-169-193	Sequence 193, App	c 805	13	68.4	937	6	US-10-750-623-49515	Sequence 49515, A
c 733	13.2	69.5	119160	7	US-11-121-086-12	Sequence 12, Appl	c 806	13	68.4	1101	7	US-11-075-351-37	Sequence 37, Appl
c 734	13.2	69.5	130472	6	US-10-995-561-13312	Sequence 13312, A	c 807	13	68.4	1125	7	US-11-075-351-41	Sequence 41, Appl
c 735	13.2	69.5	137671	7	US-11-121-086-47	Sequence 47, Appl	c 808	13	68.4	1414	6	US-10-750-185-28151	Sequence 28151, A
c 736	13.2	69.5	137935	6	US-10-995-561-13278	Sequence 13278, A	c 809	13	68.4	1414	6	US-10-750-623-28151	Sequence 28151, A
c 737	13.2	69.5	148935	6	US-10-995-561-13308	Sequence 13308, A	c 810	13	68.4	1444	6	US-10-750-185-43380	Sequence 43380, A
c 738	13.2	69.5	149419	7	US-11-112-908-49	Sequence 49, Appl	c 811	13	68.4	1444	6	US-10-750-623-43380	Sequence 43380, A
c 739	13.2	69.5	150038	7	US-11-121-086-23	Sequence 23, Appl	c 812	13	68.4	1907	6	US-10-995-561-497	Sequence 497, App
c 740	13.2	69.5	150481	7	US-11-112-908-37	Sequence 37, Appl	c 813	13	68.4	2056	6	US-10-131-826A-31	Sequence 31, Appl
c 741	13.2	69.5	150481	7	US-11-112-908-37	Sequence 37, Appl	c 814	13	68.4	2056	6	US-10-512-214-15	Sequence 15, Appl
c 742	13.2	69.5	153142	7	US-11-121-086-27	Sequence 27, Appl	c 815	13	68.4	2180	6	US-10-750-185-36383	Sequence 36383, A
c 743	13.2	69.5	153376	7	US-11-121-086-5	Sequence 5, Appli	c 816	13	68.4	2180	6	US-10-750-623-36383	Sequence 36383, A
c 744	13.2	69.5	155515	7	US-11-112-908-42	Sequence 42, Appl	c 817	13	68.4	2185	6	US-10-510-386-29	Sequence 29, Appl
c 745	13.2	69.5	156260	7	US-11-121-086-87	Sequence 87, Appl	c 818	13	68.4	2188	6	US-10-510-386-237	Sequence 237, App
c 746	13.2	69.5	160226	7	US-11-121-086-29	Sequence 29, Appl	c 819	13	68.4	2252	6	US-10-750-185-58156	Sequence 58156, A
c 747	13.2	69.5	161726	7	US-11-112-908-48	Sequence 48, Appl	c 820	13	68.4	2252	6	US-10-750-623-58156	Sequence 58156, A
c 748	13.2	69.5	161726	7	US-11-112-908-52	Sequence 52, Appl	c 821	13	68.4	4313	6	US-10-131-826A-393	Sequence 393, App
c 749	13.2	69.5	161994	7	US-11-112-908-57	Sequence 57, Appl	c 822	13	68.4	5731	7	US-11-136-527-2736	Sequence 2736, Ap
c 750	13.2	69.5	162013	7	US-11-150-888-30	Sequence 30, Appl	c 823	13	68.4	18394	6	US-10-995-561-13367	Sequence 13367, A
c 751	13.2	69.5	162289	7	US-11-121-086-20	Sequence 20, Appl	c 824	13	68.4	35344	6	US-10-995-561-13307	Sequence 13307, A
c 752	13.2	69.5	170995	7	US-11-121-086-35	Sequence 35, Appl	c 825	13	68.4	70513	6	US-10-995-561-13368	Sequence 13368, A
c 753	13.2	69.5	171162	7	US-11-112-908-38	Sequence 38, Appl	c 826	13	68.4	158410	7	US-11-121-086-46	Sequence 46, Appl

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828	13	68.4	198285	6	US-10-775-169-338	Sequence 338, App	c 901	12.8	67.4	201	6	US-10-995-561-39842	Sequence 39842, A
829	12.8	67.4	18	6	US-10-310-914A-161812	Sequence 161812,	c 902	12.8	67.4	201	6	US-10-995-561-43739	Sequence 43739, A
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832	12.8	67.4	19	7	US-11-069-908-968	Sequence 968, App	905	12.8	67.4	201	6	US-10-995-561-55508	Sequence 55508, A
833	12.8	67.4	19	7	US-11-069-908-3334	Sequence 3334, App	906	12.8	67.4	201	6	US-10-995-561-56597	Sequence 56597, A
c 834	12.8	67.4	19	7	US-11-110-011-10	Sequence 10, Appl	907	12.8	67.4	201	6	US-10-995-561-62998	Sequence 62998, A
c 835	12.8	67.4	19	8	US-11-101-244-150733	Sequence 150733,	908	12.8	67.4	201	6	US-10-995-561-72945	Sequence 72945, A
c 836	12.8	67.4	19	8	US-11-101-244-150733	Sequence 150733,	909	12.8	67.4	201	6	US-10-995-561-73475	Sequence 73475, A
c 837	12.8	67.4	19	8	US-11-101-244-195551	Sequence 195551,	910	12.8	67.4	201	6	US-10-995-561-73486	Sequence 73486, A
c 838	12.8	67.4	19	8	US-11-101-244-272336	Sequence 272336,	911	12.8	67.4	201	6	US-10-995-561-73679	Sequence 73679, A
c 839	12.8	67.4	19	8	US-11-101-244-546237	Sequence 546237,	912	12.8	67.4	201	6	US-10-995-561-76381	Sequence 76381, A
c 840	12.8	67.4	19	8	US-11-101-244-625185	Sequence 625185,	913	12.8	67.4	201	6	US-10-995-561-76762	Sequence 76762, A
c 841	12.8	67.4	19	8	US-11-101-244-625248	Sequence 625248,	914	12.8	67.4	201	6	US-10-995-561-81492	Sequence 81492, A
c 842	12.8	67.4	19	8	US-11-101-244-676814	Sequence 676814,	915	12.8	67.4	201	6	US-10-995-561-83014	Sequence 83014, A
c 843	12.8	67.4	19	8	US-11-101-244-886372	Sequence 886372,	916	12.8	67.4	201	6	US-10-995-561-83031	Sequence 83031, A
c 844	12.8	67.4	19	8	US-11-101-244-999591	Sequence 999591,	917	12.8	67.4	201	6	US-10-995-561-83033	Sequence 83033, A
c 845	12.8	67.4	19	8	US-11-101-244-1054840	Sequence 1054840,	c 918	12.8	67.4	201	7	US-11-124-368A-4588	Sequence 4588, App
c 846	12.8	67.4	19	8	US-11-101-244-1244594	Sequence 1244594,	919	12.8	67.4	201	7	US-11-124-368A-12329	Sequence 12329, A
c 847	12.8	67.4	19	9	US-11-083-784-150733	Sequence 150733,	920	12.8	67.4	201	7	US-11-124-368A-15184	Sequence 15184, A
c 848	12.8	67.4	19	9	US-11-083-784-150763	Sequence 150763,	921	12.8	67.4	201	7	US-11-124-368A-20084	Sequence 20084, A
c 849	12.8	67.4	19	9	US-11-083-784-195551	Sequence 195551,	922	12.8	67.4	441	7	US-11-128-061-2293	Sequence 2293, App
c 850	12.8	67.4	19	9	US-11-083-784-272336	Sequence 272336,	923	12.8	67.4	441	7	US-11-128-061-5925	Sequence 5925, App
c 851	12.8	67.4	19	9	US-11-083-784-546237	Sequence 546237,	924	12.8	67.4	442	7	US-11-128-061-1489	Sequence 1489, App
c 852	12.8	67.4	19	9	US-11-083-784-625185	Sequence 625185,	925	12.8	67.4	442	7	US-11-128-061-5131	Sequence 5131, App
c 853	12.8	67.4	19	9	US-11-083-784-625248	Sequence 625248,	926	12.8	67.4	471	6	US-10-750-185-47088	Sequence 47088, A
c 854	12.8	67.4	19	9	US-11-083-784-676814	Sequence 676814,	927	12.8	67.4	471	6	US-10-750-623-47088	Sequence 47088, A
c 855	12.8	67.4	19	9	US-11-083-784-886372	Sequence 886372,	928	12.8	67.4	494	6	US-10-802-796-136	Sequence 136, App
c 856	12.8	67.4	19	9	US-11-083-784-999591	Sequence 999591,	929	12.8	67.4	535	7	US-11-128-061-2912	Sequence 2912, App
c 857	12.8	67.4	19	9	US-11-083-784-1054840	Sequence 1054840,	930	12.8	67.4	535	7	US-11-128-061-6554	Sequence 6554, App
c 858	12.8	67.4	19	9	US-11-083-784-1244594	Sequence 1244594,	931	12.8	67.4	540	6	US-10-665-455-7	Sequence 7, Appli
c 859	12.8	67.4	20	6	US-10-750-185-13911	Sequence 13911, A	932	12.8	67.4	560	7	US-11-128-061-2975	Sequence 2975, App
c 860	12.8	67.4	20	6	US-10-750-623-13911	Sequence 13911, A	933	12.8	67.4	560	7	US-11-128-061-6617	Sequence 6617, App
c 861	12.8	67.4	20	6	US-10-310-914A-595255	Sequence 595255,	934	12.8	67.4	561	6	US-10-750-185-4176	Sequence 4176, App
c 862	12.8	67.4	21	6	US-10-310-914A-1061302	Sequence 1061302,	935	12.8	67.4	581	6	US-10-750-623-4176	Sequence 4176, App
c 863	12.8	67.4	21	6	US-10-310-914A-1179069	Sequence 1179069,	936	12.8	67.4	580	7	US-11-128-061-1217	Sequence 1217, App
c 864	12.8	67.4	22	6	US-10-310-914A-166287	Sequence 166287,	937	12.8	67.4	580	7	US-11-128-061-4859	Sequence 4859, App
c 865	12.8	67.4	22	6	US-10-310-914A-711259	Sequence 711259,	938	12.8	67.4	592	7	US-11-136-527-1621	Sequence 1621, App
c 866	12.8	67.4	23	6	US-10-310-914A-247442	Sequence 247442,	939	12.8	67.4	592	7	US-11-136-527-5717	Sequence 5717, App
c 867	12.8	67.4	23	6	US-10-310-914A-503254	Sequence 503254,	940	12.8	67.4	598	6	US-10-750-185-4165	Sequence 4165, App
c 868	12.8	67.4	23	6	US-10-310-914A-1061273	Sequence 1061273,	941	12.8	67.4	598	6	US-10-750-623-4165	Sequence 4165, App
c 869	12.8	67.4	24	6	US-10-310-914A-175316	Sequence 175316,	942	12.8	67.4	600	6	US-10-750-185-2266	Sequence 2266, App
c 870	12.8	67.4	24	6	US-10-310-914A-948929	Sequence 948929,	943	12.8	67.4	600	6	US-10-750-185-2637	Sequence 2637, App
c 871	12.8	67.4	25	7	US-11-121-849-99014	Sequence 99014, A	944	12.8	67.4	600	6	US-10-750-185-4175	Sequence 4175, App
c 872	12.8	67.4	25	7	US-11-121-849-110586	Sequence 110586,	945	12.8	67.4	600	6	US-10-750-623-959	Sequence 959, App
c 873	12.8	67.4	25	7	US-11-121-849-132243	Sequence 132243,	946	12.8	67.4	600	6	US-10-750-623-2266	Sequence 2266, App
c 874	12.8	67.4	25	7	US-11-121-849-132244	Sequence 132244,	947	12.8	67.4	600	6	US-10-750-623-2637	Sequence 2637, App
c 875	12.8	67.4	25	7	US-11-121-849-132245	Sequence 132245,	948	12.8	67.4	600	6	US-10-750-623-4175	Sequence 4175, App
c 876	12.8	67.4	25	7	US-11-121-849-132246	Sequence 132246,	949	12.8	67.4	600	6	US-10-750-623-4175	Sequence 4175, App
c 877	12.8	67.4	25	7	US-11-121-849-132247	Sequence 132247,	950	12.8	67.4	600	7	US-11-136-527-5456	Sequence 5456, App
c 878	12.8	67.4	25	7	US-11-121-849-171488	Sequence 171488,	951	12.8	67.4	600	7	US-11-136-527-6086	Sequence 6086, App
c 879	12.8	67.4	25	7	US-11-121-849-219804	Sequence 219804,	952	12.8	67.4	600	7	US-11-128-061-3841	Sequence 3841, App
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c 882	12.8	67.4	25	7	US-11-121-849-668276	Sequence 668276,	955	12.8	67.4	600	7	US-11-128-061-7099	Sequence 7099, App
c 883	12.8	67.4	25	7	US-11-136-527-257847	Sequence 257847,	956	12.8	67.4	617	7	US-11-055-822-193	Sequence 193, App
c 884	12.8	67.4	25	7	US-11-136-527-353571	Sequence 353571,	957	12.8	67.4	637	7	US-11-136-527-1360	Sequence 1360, App
c 885	12.8	67.4	28	6	US-10-310-914A-948988	Sequence 948988,	958	12.8	67.4	645	6	US-10-750-185-54250	Sequence 54250, A
c 886	12.8	67.4	67	6	US-10-310-914A-11369	Sequence 11369, A	959	12.8	67.4	645	6	US-10-750-623-54250	Sequence 54250, A
c 887	12.8	67.4	83	6	US-10-310-914A-10221	Sequence 10221, A	960	12.8	67.4	687	7	US-11-055-822-191	Sequence 191, App
c 888	12.8	67.4	98	6	US-10-310-914A-4170	Sequence 4170, App	961	12.8	67.4	689	6	US-10-750-185-25973	Sequence 25973, A
c 889	12.8	67.4	201	6	US-10-995-561-10453	Sequence 10453, A	962	12.8	67.4	689	6	US-10-750-623-25973	Sequence 25973, A
c 890	12.8	67.4	201	6	US-10-995-561-10464	Sequence 10464, A	963	12.8	67.4	712	6	US-10-750-185-41018	Sequence 41018, A
c 891	12.8	67.4	201	6	US-10-995-561-14915	Sequence 14915, A	964	12.8	67.4	712	6	US-10-750-623-41018	Sequence 41018, A
c 892	12.8	67.4	201	6	US-10-995-561-15020	Sequence 15020, A	965	12.8	67.4	714	7	US-11-128-061-804	Sequence 804, App
c 893	12.8	67.4	201	6	US-10-995-561-19620	Sequence 19620, A	966	12.8	67.4	721	7	US-11-128-061-199	Sequence 199, App
c 894	12.8	67.4	201	6	US-10-995-561-19621	Sequence 19621, A	967	12.8	67.4	768	6	US-10-750-185-53738	Sequence 53738, A
c 895	12.8	67.4	201	6	US-10-995-561-19705	Sequence 19705, A	968	12.8	67.4	768	6	US-10-750-623-53738	Sequence 53738, A
c 896	12.8	67.4	201	6	US-10-995-561-24239	Sequence 24239, A	969	12.8	67.4	789	6	US-10-750-185-39613	Sequence 39613, A
c 897	12.8	67.4	201	6	US-10-995-561-24789	Sequence 24789, A	970	12.8	67.4	789	6	US-10-750-623-39613	Sequence 39613, A
c 898	12.8	67.4	201	6	US-10-995-561-32396	Sequence 32396, A	971	12.8	67.4	803	7	US-11-136-527-1181	Sequence 1181, App
c 899	12.8	67.4	201	6	US-10-995-561-32456	Sequence 32456, A	972	12.8	67.4	850	6	US-10-750-185-42959	Sequence 42959, A

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12.8 67.4 850 6 US-10-750-623-42959 Sequence 42959, A
c 974 12.8 67.4 885 6 US-10-750-185-59154 Sequence 59154, A
c 975 12.8 67.4 885 6 US-10-750-623-59154 Sequence 59154, A
c 976 12.8 67.4 892 6 US-10-750-185-62811 Sequence 62811, A
c 977 12.8 67.4 892 6 US-10-750-623-62811 Sequence 62811, A
c 978 12.8 67.4 908 6 US-10-750-185-32084 Sequence 32084, A
c 979 12.8 67.4 908 6 US-10-750-623-32084 Sequence 32084, A
c 980 12.8 67.4 963 6 US-10-750-185-51062 Sequence 51062, A
c 981 12.8 67.4 963 6 US-10-750-623-51062 Sequence 51062, A
c 982 12.8 67.4 993 6 US-10-750-185-47579 Sequence 47579, A
c 983 12.8 67.4 993 6 US-10-750-623-47579 Sequence 47579, A
c 984 12.8 67.4 1158 6 US-10-750-185-36816 Sequence 36816, A
c 985 12.8 67.4 1158 6 US-10-750-623-36816 Sequence 36816, A
c 986 12.8 67.4 1161 6 US-10-858-730-273 Sequence 273, App
c 987 12.8 67.4 1163 6 US-10-750-185-54463 Sequence 54463, A
c 988 12.8 67.4 1163 6 US-10-750-623-54463 Sequence 54463, A
c 989 12.8 67.4 1164 6 US-10-750-185-39997 Sequence 39997, A
c 990 12.8 67.4 1164 6 US-10-750-623-39997 Sequence 39997, A
c 991 12.8 67.4 1187 6 US-10-750-185-33769 Sequence 33769, A
c 992 12.8 67.4 1187 6 US-10-750-623-33769 Sequence 33769, A
c 993 12.8 67.4 1199 6 US-10-750-185-48768 Sequence 48768, A
c 994 12.8 67.4 1199 6 US-10-750-623-48768 Sequence 48768, A
c 995 12.8 67.4 1222 6 US-10-750-185-54124 Sequence 54124, A
c 996 12.8 67.4 1222 6 US-10-750-623-54124 Sequence 54124, A
c 997 12.8 67.4 1229 6 US-10-750-185-29332 Sequence 29332, A
c 998 12.8 67.4 1229 6 US-10-750-623-29332 Sequence 29332, A
c 999 12.8 67.4 1230 6 US-10-750-185-62382 Sequence 62382, A
1000 12.8 67.4 1230 6 US-10-750-623-62382 Sequence 62382, A
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## ALIGNMENTS

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RESULT 1
US-10-750-185-43749
; Sequence 43749, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43749
; LENGTH: 1606
; TYPE: DNA
; ORGANISM: Bovine 19866880831151
US-10-750-185-43749

Query Match 83.2%; Score 15.8; DB 6; Length 1606;
Best Local Similarity 89.5%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGACC 19
|||||||
Db 1197 GGGGTCTGACAGGCTGACC 1215

RESULT 2
US-10-750-623-43749
; Sequence 43749, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
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Query Match      78.9%; Score 15; DB 6; Length 992;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGTCTGGCTGAG 18
   |||||
Db 537 GTCTGTCTGGCTGAG 551

RESULT 9
US-10-995-561-512
; Sequence 512, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 512
; LENGTH: 1416
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-512

Query Match      78.9%; Score 15; DB 6; Length 1416;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGTCTGGCTGAG 18
   |||||
Db 991 GTCTGTCTGGCTGAG 1005

RESULT 10
US-10-995-561-511
; Sequence 511, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 511
; LENGTH: 1507
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-511

Query Match      78.9%; Score 15; DB 6; Length 1507;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGTCTGGCTGAG 18
   |||||
Db 1082 GTCTGTCTGGCTGAG 1096

RESULT 11
US-11-136-527-676/c
; Sequence 676, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
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; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 676
; LENGTH: 5841
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-676

Query Match      78.9%; Score 15; DB 7; Length 5841;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 TCTGTCTGGCTGAG 19
   |||||
Db 4550 TCTGTCTGGCTGAG 4536

RESULT 12
US-10-995-561-13370
; Sequence 13370, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13370
; LENGTH: 14271
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(14271)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13370
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Query Match      78.9%; Score 15; DB 6; Length 14271;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GTCTGTCTGGCTGAG 18
   |||||
Db 7845 GTCTGTCTGGCTGAG 7859
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RESULT 13
US-10-995-561-13507
; Sequence 13507, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13507
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; LENGTH: 14769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(14769)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13507

Query Match      78.9%; Score 15; DB 6; Length 14769;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 GTCTGCTGGCTGAG 18
Db      4328 GTCTGCTGGCTGAG 4342

RESULT 14
US-10-995-561-13510
; Sequence 13510, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13510
; LENGTH: 40000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(40000)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13510

Query Match      78.9%; Score 15; DB 6; Length 40000;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 GTCTGCTGGCTGAG 18
Db      18644 GTCTGCTGGCTGAG 18658

RESULT 15
US-10-995-561-13275/c
; Sequence 13275, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13275
; LENGTH: 57073
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13275

Query Match      78.9%; Score 15; DB 6; Length 57073;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
```

```
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GGTCTGCTGGCTGA 17
Db      17388 GGTCTGCTGGCTGA 17374

RESULT 16
US-10-310-914A-166285/c
; Sequence 166285, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200 CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 166285
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-166285

Query Match      77.9%; Score 14.8; DB 6; Length 26;
Best Local Similarity 88.9%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGGCTGCTGCTGCTGAG 18
Db      21 GGGGCTGCTGCTGCTGAG 4

RESULT 17
US-10-995-561-81215/c
; Sequence 81215, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81215
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-81215

Query Match      77.9%; Score 14.8; DB 6; Length 201;
Best Local Similarity 88.9%; Pred. No. 3.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGGCTGCTGCTGCTGAG 18
Db      131 GAGGTTTGTCTGCTGAG 114

RESULT 18
US-10-995-561-81293/c
; Sequence 81293, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

; TITLE OF INVENTION: DETECTION AND USES THEREOF  
 ; FILE REFERENCE: CL001559  
 ; CURRENT APPLICATION NUMBER: US/10/995,561  
 ; CURRENT FILING DATE: 2004-11-24  
 ; NUMBER OF SEQ ID NOS: 85702  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 81293  
 ; LENGTH: 201  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-995-561-81293  
 Query Match 77.9%; Score 14.8; DB 6; Length 201;  
 Best Local Similarity 88.9%; Pred. No. 3.7e+02;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 ;  
 Qy 1 GGGGCTGTCTGGCTGAG 18  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 22 GAGGTTTGTCTGGCTGAG 5  
 ;  
 RESULT 21  
 US-10-995-561-81631/c  
 ; Sequence 81631, Application US/10995561  
 ; Publication No. US20050272054A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CARGILL, Michele et al.  
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
 ; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF  
 ; TITLE OF INVENTION: DETECTION AND USES THEREOF  
 ; FILE REFERENCE: CL001559  
 ; CURRENT APPLICATION NUMBER: US/10/995,561  
 ; CURRENT FILING DATE: 2004-11-24  
 ; NUMBER OF SEQ ID NOS: 85702  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 81631  
 ; LENGTH: 201  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-995-561-81631  
 Query Match 77.9%; Score 14.8; DB 6; Length 201;  
 Best Local Similarity 88.9%; Pred. No. 3.7e+02;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 ;  
 Qy 1 GGGGCTGTCTGGCTGAG 18  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 131 GAGGTTTGTCTGGCTGAG 114  
 ;  
 RESULT 22  
 US-11-136-527-7822/c  
 ; Sequence 7822, Application US/11136527  
 ; Publication No. US20050287570A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Mounts, William M  
 ; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
 ; FILE REFERENCE: 031896-041000 (AM101086)  
 ; CURRENT APPLICATION NUMBER: US/11/136,527  
 ; CURRENT FILING DATE: 2005-05-25  
 ; PRIOR APPLICATION NUMBER: US 60/574,294  
 ; PRIOR FILING DATE: 2005-05-26  
 ; NUMBER OF SEQ ID NOS: 362830  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 7822  
 ; LENGTH: 600  
 ; TYPE: DNA  
 ; ORGANISM: Rattus norvegicus  
 US-11-136-527-7822  
 Query Match 77.9%; Score 14.8; DB 7; Length 600;  
 Best Local Similarity 88.9%; Pred. No. 3.5e+02;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 ;  
 Qy 1 GGGGCTGTCTGGCTGAG 18  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 343 GAGGTTTGTCTGGCTGAG 326  
 ;  
 RESULT 23  
 US-10-453-372-815  
 ; Sequence 815, Application US/10453372  
 ; Publication No. US20060003232A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alesbrook, et al.  
 ; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME,  
 ; FILE REFERENCE: 21402-589 A

```
; CURRENT APPLICATION NUMBER: US/10/453.372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 815
; LENGTH: 780
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(780)
US-10-453-372-815

Query Match      77.9%; Score 14.8; DB 6; Length 780;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GGGTCTGCTGGCTGAGC 19
      ||| ||||| ||||| |||
Db      716 GGGCTGTCTGGCTGTGC 733

RESULT 24
US-10-453-372-813
; Sequence 813, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453.372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
```

```
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 813
; LENGTH: 840
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (2)..(835)
US-10-453-372-813

Query Match      77.9%; Score 14.8; DB 6; Length 840;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GGGTCTGCTGGCTGAGC 19
      ||| ||||| ||||| |||
Db      777 GGGCTGTCTGGCTGTGC 794

RESULT 25
US-10-750-185-59822/c
; Sequence 59822, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MW1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59822
; LENGTH: 982
; TYPE: DNA
; ORGANISM: Bovine 19866881203628
US-10-750-185-59822

Query Match      77.9%; Score 14.8; DB 6; Length 982;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GGGTCTGCTGGCTGAGC 19
      ||| ||||| ||||| |||
Db      770 GGGTGTGTCTGGCTAAGC 753

RESULT 26
US-10-750-623-59822/c
; Sequence 59822, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MW1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
```

```

; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 59822
; LENGTH: 982
; TYPE: DNA
; ORGANISM: Bovine 19866881203628
US-10-750-623-59822

Query Match      77.9%; Score 14.8; DB 6; Length 982;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GGGTCTGCTCGGCTGAGC 19
      ||||| ||||| ||||| |||||
Db      770 GGGTCTGCTCGGCTAAGC 753

RESULT 27
US-10-750-185-31777/c
; Sequence 31777, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: FANTIN, Dennis
; APPLICANT: BATES, Stephen
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 31777
; LENGTH: 1241
; TYPE: DNA
; ORGANISM: Bovine 19866881038804
US-10-750-185-31777

Query Match      77.9%; Score 14.8; DB 6; Length 1241;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GGGTCTGCTCGGCTGAGC 19
      ||||| ||||| ||||| |||||
Db      991 GGGTCTGATGGCTCAGC 974

RESULT 28
US-10-750-623-31777/c
; Sequence 31777, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: FANTIN, Dennis
; APPLICANT: BATES, Stephen
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
;

```

```

; SEQ ID NO 31777
; LENGTH: 1241
; TYPE: DNA
; ORGANISM: Bovine 19866881038804
US-10-750-623-31777

Query Match      77.9%; Score 14.8; DB 6; Length 1241;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GGGTCTGCTCGGCTGAGC 19
      ||||| ||||| ||||| |||||
Db      991 GGGTCTGATGGCTCAGC 974

RESULT 29
US-10-750-185-44852
; Sequence 44852, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 44852
; LENGTH: 1470
; TYPE: DNA
; ORGANISM: Bovine 19866881004663
US-10-750-185-44852

Query Match      77.9%; Score 14.8; DB 6; Length 1470;
Best Local Similarity 88.9%; Pred. No. 3.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GGGTCTGCTCGGCTGAGC 19
      ||||| ||||| ||||| |||||
Db      431 GGGTCTGTGTGGATGAGC 448

RESULT 30
US-10-750-623-44852
; Sequence 44852, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 44852
; LENGTH: 1470
; TYPE: DNA
;

```

```
; ORGANISM: Bovine 19866881004663
US-10-750-623-44852

Query Match
Best Local Similarity 77.9%; Score 14.8; DB 6; Length 1470;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGCTCTGTCTGGCTGAGC 19
Db 431 GGGTGTGTCTGGATGAGC 448

RESULT 31
US-10-750-185-43064
; Sequence 43064, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880732550
US-10-750-185-43064

Query Match
Best Local Similarity 77.9%; Score 14.8; DB 6; Length 1567;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGCTCTGTCTGGCTGAGC 19
Db 1091 GGGTGTGTCTGGCTGAGC 1108

RESULT 32
US-10-750-623-43064
; Sequence 43064, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880732550
US-10-750-623-43064

Query Match
Best Local Similarity 77.9%; Score 14.8; DB 6; Length 1645;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGAG 18
Db 947 GGGATCTTCTGGCTGAG 930

RESULT 34
US-10-750-623-26045/c
; Sequence 26045, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 26045
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Bovine 19866880859222
US-10-750-623-26045

Query Match
Best Local Similarity 77.9%; Score 14.8; DB 6; Length 1645;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGGCTGAG 18
Db 947 GGGATCTTCTGGCTGAG 930

RESULT 34
US-10-750-623-26045/c
; Sequence 26045, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 26045
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Bovine 19866880859222
US-10-750-623-26045

Query Match
Best Local Similarity 77.9%; Score 14.8; DB 6; Length 1645;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```



```
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT FILING DATE: 2005-05-25
; CURRENT APPLICATION NUMBER: US/11/136,527
; PRIOR FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3726
; LENGTH: 4854
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-3726

Query Match      77.9%  Score 14.8; DB 7; Length 4854;
Best Local Similarity 88.9%  Pred. No. 3.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
    |||||
Db 4597 GAGGTTGTCTGGCTGAG 4580

RESULT 40
US-11-000-688-1053/c
; Sequence 1053, Application US/11000688
; Publication No. US20050287544A1
; GENERAL INFORMATION:
; APPLICANT: BERTUCCI, Francois
; APPLICANT: HOULGATTE, Remi
; APPLICANT: BIRNBAUM, Daniel
; TITLE OF INVENTION: GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS
; FILE REFERENCE: 1423-R-03
; CURRENT APPLICATION NUMBER: US/11/000,688
; CURRENT FILING DATE: 2004-12-01
; PRIOR FILING DATE: 2003-12-01
; NUMBER OF SEQ ID NOS: 1596
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1053
; LENGTH: 6914
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial sequences:primer
; NAME/KEY: misc_feature
; LOCATION: (1)..(6914)
; OTHER INFORMATION: coagulation factor v (proaccelerin, labile
; OTHER INFORMATION: factor)(F5) gene.
US-11-000-688-1053

Query Match      77.9%  Score 14.8; DB 7; Length 6914;
Best Local Similarity 88.9%  Pred. No. 3.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCGTCTGGCTGAG 18
    |||||
Db 4222 GAGGTTGTCTGGCTGAG 4205

RESULT 41
US-11-124-368A-2925
; Sequence 2925, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
```

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; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2925
; LENGTH: 23046
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20863..20864, 20865, 20866, 20867, 20868, 20869, 20870, 20871,
; LOCATION: 20872, 20873, 20874, 20875, 20876, 20877, 20878, 20879,
; LOCATION: 20880, 20881, 20882, 20883, 20884, 20885, 20886, 20887,
; LOCATION: 20888, 20889, 20890, 20891, 20892, 20893, 20894, 20895
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20896..20897, 20898, 20899, 20900, 20901, 20902, 20903, 20904,
; LOCATION: 20905, 20906, 20907, 20908, 20909, 20910, 20911, 20912,
; LOCATION: 20913, 20914, 20915, 20916, 20917, 20918, 20919, 20920,
; LOCATION: 20921, 20922, 20923, 20924, 20925, 20926, 20927, 20928
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20929..20930, 20931, 20932, 20933, 20934, 20935, 20936, 20937,
; LOCATION: 20938, 20939, 20940, 20941, 20942, 20943, 20944, 20945,
; LOCATION: 20946, 20947, 20948, 20949, 20950, 20951, 20952, 20953,
; LOCATION: 20954, 20955, 20956, 20957, 20958, 20959, 20960, 20961
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20962..20963, 20964, 20965, 20966, 20967, 20968, 20969, 20970,
; LOCATION: 20971, 20972, 20973, 20974, 20975, 20976, 20977, 20978,
; LOCATION: 20979, 20980, 20981, 20982, 20983, 20984, 20985, 20986,
; LOCATION: 20987, 20988, 20989, 20990, 20991, 20992, 20993, 20994
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20995..20996, 20997, 20998, 20999, 21000, 21001, 21002, 21003,
; LOCATION: 21004, 21005, 21006, 21007, 21008, 21009, 21010, 21011,
; LOCATION: 21012, 21013, 21014, 21015, 21016, 21017, 21018, 21019,
; LOCATION: 21020, 21021, 21022, 21023, 21024, 21025, 21026, 21027
; OTHER INFORMATION: n = A,T,C or G
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 21028..21029, 21030, 21031, 21032, 21033, 21034, 21035, 21036,
; LOCATION: 21037, 21038, 21039, 21040, 21041, 21042, 21043, 21044,
; LOCATION: 21045, 21046, 21047, 21048, 21049, 21050, 21051, 21052,
; LOCATION: 21053, 21054, 21055, 21056, 21057, 21058, 21059, 21060
; OTHER INFORMATION: n = A,T,C or G
US-11-124-368A-2925

Query Match      77.9%  Score 14.8; DB 7; Length 23046;
Best Local Similarity 88.9%  Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GGGTCGTCTGGCTGAGC 19
    |||||
Db 20333 GGGTCGTCTGGCTGAGC 20350

RESULT 42
US-10-962-756A-1
; Sequence 1, Application US/10962756A
; Publication No. US20050255488A1
; GENERAL INFORMATION:
; APPLICANT: Aerossens, Jeroen
```

```
; APPLICANT: Athanasiou, Maria
; APPLICANT: Brain, Carlos
; APPLICANT: Cohen, Nadine
; APPLICANT: Dain, Bradley
; APPLICANT: Denton, R. Rex
; APPLICANT: Judson, Richard S.
; APPLICANT: Ozdemir, Vural
; APPLICANT: Reed, Carol R.
; TITLE OF INVENTION: NTRK1 Genetic Markers Associated with Age of Onset of Alzheimer's
; FILE REFERENCE: 2300.0020001
; CURRENT APPLICATION NUMBER: US/10/962.756A
; CURRENT FILING DATE: 2004-10-13
; PRIOR APPLICATION NUMBER: US 60/511,247
; PRIOR FILING DATE: 2003-10-15
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 23459
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1804)..(1804)
; OTHER INFORMATION: n is the reference allele 'g' which can also be the variant
; OTHER INFORMATION: allele 'a'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (8872)..(8872)
; OTHER INFORMATION: n is the reference allele 't' which can also be the variant
; OTHER INFORMATION: allele 'c'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (9166)..(9166)
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (12699)..(12699)
; OTHER INFORMATION: n is the reference allele 'g' which can also be the variant
; OTHER INFORMATION: allele 'a'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17145)..(17145)
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17258)..(17258)
; OTHER INFORMATION: n is the reference allele 'g' which can also be the variant
; OTHER INFORMATION: allele 'a'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19819)..(19819)
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19833)..(19833)
; OTHER INFORMATION: n is the reference allele 't' which can also be the variant
; OTHER INFORMATION: allele 'c'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19943)..(19943)
; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (19971)..(19971)
; OTHER INFORMATION: n is the reference allele 'g' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20020)..(20020)
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; OTHER INFORMATION: n is the reference allele 'c' which can also be the variant
; OTHER INFORMATION: allele 't'
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20800)..(20800)
; OTHER INFORMATION: n is the reference allele 't' which can also be the variant
; OTHER INFORMATION: allele 'c'
; US-10-962-756A-1
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Query Match 77.9%; Score 14.8; DB 6; Length 23459;
Best Local Similarity 88.9%; Pred. No. 3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
QY 1 GGGGCTCTGCTGGCTGAG 18
    |||||
Db 7694 GGGGCTCTGCTGGCTGAG 7711
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## RESULT 43

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US-10-995-561-13494/c
; Sequence 13494, Application US/109955561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13494
; LENGTH: 84409
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-995-561-13494
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Query Match 77.9%; Score 14.8; DB 6; Length 84409;
Best Local Similarity 88.9%; Pred. No. 2.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 1 GGGGCTCTGCTGGCTGAG 18
    |||||
Db 51616 GAGGTTTGCTGGCTGAG 51599
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## RESULT 44

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US-10-995-561-13331/c
; Sequence 13331, Application US/109955561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13331
; LENGTH: 98716
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-995-561-13331
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Query Match 77.9%; Score 14.8; DB 6; Length 98716;
Best Local Similarity 88.9%; Pred. No. 2.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 1 GGGGCTCTGCTGGCTGAG 18
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Db 12084 GTGGTCTGTGGCTGTG 12067

RESULT 45

US-11-121-086-75/c

; Sequence 75, Application US/11121086

; Publication No. US20050266459A1

; GENERAL INFORMATION:

; APPLICANT: POULSEN, TIM S.

; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES

; FILE REFERENCE: 09138 6000-00000

; CURRENT APPLICATION NUMBER: US/11/121,086

; PRIOR FILING DATE: 2005-05-04

; PRIOR FILING DATE: 2004-05-04

; NUMBER OF SEQ ID NOS: 107

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 75

; LENGTH: 161874

; TYPE: DNA

; ORGANISM: Homo sapiens

US-11-121-086-75

Query Match 77.9%; Score 14.8; DB 7; Length 161874;

Best Local Similarity 88.9%; Pred. No. 2.6e+02;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTGAG 18

Db 151577 GGGGCTGTCTGGCTGAG 151560

RESULT 46

US-10-310-914A-1350864/c

; Sequence 1350864, Application US/10310914A

; Publication No. US2006000322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvazut

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1350864

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1350864

Query Match 75.8%; Score 14.4; DB 6; Length 20;

Best Local Similarity 93.8%; Pred. No. 6.2e+02;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGCTGTCTGGCTG 16

Db 18 GGGGCTGTCTGGCTG 3

RESULT 47

US-10-750-185-47917/c

; Sequence 47917, Application US/10750185

; Publication No. US20050260603A1

; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.

; APPLICANT: KERR, Richard

; APPLICANT: ROSENFELD, David

; APPLICANT: HOLM, Tom

; APPLICANT: BATES, Stephen

US-10-750-185-47917

Query Match 75.8%; Score 14.4; DB 6; Length 1116;

Best Local Similarity 93.8%; Pred. No. 5.2e+02;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GGTCTCTCTGGCTGAG 18

Db 1054 GTTCTGTCTGGCTGAG 1039

RESULT 48

US-10-750-623-47917/c

; Sequence 47917, Application US/10750623

; Publication No. US20050287531A1

; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.

; APPLICANT: KERR, Richard

; APPLICANT: ROSENFELD, David

; APPLICANT: HOLM, Tom

; APPLICANT: BATES, Stephen

; APPLICANT: FANTIN, Dennis

; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS

; FILE REFERENCE: MM1100-1

; CURRENT APPLICATION NUMBER: US/10/750,623

; CURRENT FILING DATE: 2003-12-31

; PRIOR APPLICATION NUMBER: US 60/437,482

; PRIOR FILING DATE: 2002-12-31

; NUMBER OF SEQ ID NOS: 64922

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 47917

; LENGTH: 1116

; TYPE: DNA

; ORGANISM: Bovine

US-10-750-623-47917

Query Match 75.8%; Score 14.4; DB 6; Length 1116;

Best Local Similarity 93.8%; Pred. No. 5.2e+02;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GGTCTCTCTGGCTGAG 18

Db 1054 GTTCTGTCTGGCTGAG 1039

RESULT 49

US-11-037-243-47/c

; Sequence 47, Application US/11037243

; Publication No. US20050287546A1

; GENERAL INFORMATION:

; APPLICANT: FLOWMAN, GREGORY

; APPLICANT: WHYTE, DAVID

; APPLICANT: CAENEPEEL, SEAN

; APPLICANT: CHARYDCZAK, GLEN

; APPLICANT: MANNING, GERARD

; APPLICANT: SUDARSSANAM, SUCHA

; TITLE OF INVENTION: NOVEL PROTEASES

; FILE REFERENCE: 038602/1214

; CURRENT APPLICATION NUMBER: US/11/037,243

; CURRENT FILING DATE: 2005-05-26  
; PRIOR APPLICATION NUMBER: US/09/888,615  
; PRIOR FILING DATE: 2001-06-26  
; PRIOR APPLICATION NUMBER: 60/214,047  
; PRIOR FILING DATE: 2000-06-26  
; NUMBER OF SEQ ID NOS: 150  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 47  
; LENGTH: 1671  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-037-243-47

Query Match 75.8%; Score 14.4; DB 7; Length 1671;  
Best Local Similarity 93.8%; Pred. No. 5.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GGGTCTCTCTGGCTGA 17  
|||||  
Db 362 GGGTCTCTCTGGCTTA 347

RESULT 50  
US-10-821-234-424/c  
; Sequence 424, Application US/10821234  
; Publication No. US20050255114A1  
; GENERAL INFORMATION:  
; APPLICANT: Labat, Ivan  
; APPLICANT: Stache-Crain, Birgit  
; APPLICANT: Andarmani, Susan  
; APPLICANT: Tang, Y. Tom  
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia  
; FILE REFERENCE: 821A  
; CURRENT APPLICATION NUMBER: US/10/821,234  
; CURRENT FILING DATE: 2004-04-07  
; PRIOR APPLICATION NUMBER: US 60/462,047  
; PRIOR FILING DATE: 2003-04-07  
; NUMBER OF SEQ ID NOS: 1704  
; SOFTWARE: Pf\_SEQ\_genes Version 1.0  
; SEQ ID NO 424  
; LENGTH: 2337  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-821-234-424

Query Match 75.8%; Score 14.4; DB 6; Length 2337;  
Best Local Similarity 93.8%; Pred. No. 5e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCTCTCTGGCTG 16  
|||||  
Db 950 GGGGTCTCTCTGGCTG 935

Search completed: January 11, 2006, 05:11:00  
Job time : 414.949 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 18:27:38 ; Search time 278 Seconds  
(without alignments)  
8606.468 Million cell updates/sec

Title: US-09-869-169C-19  
Perfect score: 1346  
Sequence: 1 ggaagcaactacatgtcca.....gaagaaggcaagtggcgatg 1346

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA: \*  
1: /cgn2\_6/prodata/1/ina/1\_COMB.seq: \*  
2: /cgn2\_6/prodata/1/ina/5\_COMB.seq: \*  
3: /cgn2\_6/prodata/1/ina/6A\_COMB.seq: \*  
4: /cgn2\_6/prodata/1/ina/6B\_COMB.seq: \*  
5: /cgn2\_6/prodata/1/ina/H\_COMB.seq: \*  
6: /cgn2\_6/prodata/1/ina/PCOMB\_COMB.seq: \*  
7: /cgn2\_6/prodata/1/ina/PP\_COMB.seq: \*  
8: /cgn2\_6/prodata/1/ina/RE\_COMB.seq: \*  
9: /cgn2\_6/prodata/1/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1346	100.0	103934	3	US-09-949-016-14433 Sequence 14433, A
2	1179.2	87.6	1254	3	US-10-085-612A-4 Sequence 4, Appli
3	1072.6	79.7	35803	3	US-09-949-016-11863 Sequence 11863, A
4	1072.6	79.7	35804	3	US-09-949-016-12962 Sequence 12962, A
5	480.6	35.7	601	3	US-09-949-016-93499 Sequence 93499, A
6	454	33.7	31197	3	US-09-949-016-12963 Sequence 12963, A
7	439.2	32.6	1345	3	US-09-372-339-2 Sequence 2, Appli
8	438.8	32.6	1345	3	US-09-144-367-3 Sequence 3, Appli
9	438.8	32.6	1345	3	US-10-085-612A-3 Sequence 3, Appli
10	437.6	32.5	1345	3	US-09-372-339-1 Sequence 1, Appli
11	430.2	32.0	34172	3	US-09-949-016-14432 Sequence 14432, A
12	290.6	21.6	601	3	US-09-949-016-20240 Sequence 20240, A
13	290.6	21.6	601	3	US-09-949-016-42446 Sequence 42446, A
14	169.2	12.6	7678	3	US-09-573-080A-348 Sequence 348, App
15	167.2	12.4	1055	3	US-09-573-080A-73 Sequence 73, Appli
16	160.8	11.9	601	3	US-09-949-016-149661 Sequence 149661, A
17	160.4	11.9	71387	3	US-09-949-016-16754 Sequence 16754, A
18	159.6	11.9	149543	3	US-09-949-016-15947 Sequence 15947, A
19	157.2	11.7	89584	3	US-09-949-016-17068 Sequence 17068, A
20	156.4	11.6	145241	3	US-09-949-016-17394 Sequence 17394, A
21	156.4	11.6	145241	3	US-09-949-016-17395 Sequence 17395, A
22	155.6	11.6	294836	3	US-09-949-016-15974 Sequence 15974, A
23	154	11.4	35058	3	US-09-949-016-12607 Sequence 12607, A
24	154	11.4	35059	3	US-09-949-016-13831 Sequence 13831, A

RESULT 1  
US-09-949-016-14433 ; Sequence 14433, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14433  
; LENGTH: 103934  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(103934)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14433

Query Match	100.0%;	Score 1346;	DB 3;	Length 103934;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1346;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GGAGCAACTACATGTCCATCAACAGATGAATGGTAAAGAGTACTTCACTTATGCA	60	
Db	85230	GGAGCAACTACATGTCCATCAACAGATGAATGGTAAAGAGTACTTCACTTATGCA	85289	
QY	61	CAATGAGTACAAATTCAGCCATGMAAAAGCATGAGATCTGTCTCTTTTATAAAGCTGG	120	
Db	85290	CAATGAGTACAAATTCAGCCATGMAAAAGCATGAGATCTGTCTCTTTTATAAAGCTGG	85349	
QY	121	CTGGAACTCGAGTCAATTTAGTTAGTAAATAAGCAGCACAAGACAGACATTCG	180	
Db	85350	CTGGAACTCGAGTCAATTTAGTTAGTAAATAAGCAGCACAAGACAGACATTCG	85409	
QY	181	ATGTTCTCACTTATTTGTGGATCTCAATCAAAACAATTGAGCTAATGTCCTGGTCTT	240	

ALIGNMENTS

Db 85410 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAAACAATTGAGCTAAATGCTGGGTCTT 85469  
Qy 241 AGTCATTTTGTACCTTAAGTCACAGGAGCACAGCCATTAGAATACATGATGATGCTTT 300  
Db 85470 AGTCATTTTGTACCTTAAGTCACAGGAGCACAGCCATTAGAATACATGATGATGCTTT 85529  
Qy 301 AATACAGGAATGAATAGTCAGAGGCACAGGGTGTGGGTGTTCTTCTGATACATAGTA 360  
Db 85530 AATACAGGAATGAATAGTCAGAGGCACAGGGTGTGGGTGTTCTTCTGATACATAGTA 85589  
Qy 361 TCTTCTTGACACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCAATGATGTTACCTT 420  
Db 85590 TCTTCTTGACACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCAATGATGTTACCTT 85649  
Qy 421 CTGAGGAATTAAGTGGCAGACATGCTCTTATTTTCTTCTTTCAGACACAGCAAT 480  
Db 85650 CTGAGGAATTAAGTGGCAGACATGCTCTTATTTTCTTCTTTCAGACACAGCAAT 85709  
Qy 481 TGCATTAGTTGGGAAACAGTCTGCTGCTGATCTGAGCCCAAGCAACCATTAGTCTATTG 540  
Db 85710 TGCATTAGTTGGGAAACAGTCTGCTGCTGATCTGAGCCCAAGCAACCATTAGTCTATTG 85769  
Qy 541 CTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCACCAAGTCAA 600  
Db 85770 CTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCACCAAGTCAA 85829  
Qy 601 CTCACCAACATTTCTGGTCAACCCACCATGTGTACAGTACCCTGCTAGGTCAGGGTCA 660  
Db 85830 CTCACCAACATTTCTGGTCAACCCACCATGTGTACAGTACCCTGCTAGGTCAGGGTCA 85889  
Qy 661 TGAAGTAATAATATACACAGACTGTGCCCTTGAGGAACTCACCTCTGCTAAAGGGAACAGG 720  
Db 85890 TGAAGTAATAATATACACAGACTGTGCCCTTGAGGAACTCACCTCTGCTAAAGGGAACAGG 85949  
Qy 721 CACAGAAACCCACAGGGTGTAGAGAGAAATAGGACAATPAGGACTGTGTGAGGGGGAT 780  
Db 85950 CACAGAAACCCACAGGGTGTAGAGAGAAATAGGACAATPAGGACTGTGTGAGGGGGAT 86009  
Qy 781 AGGAGGACCCAGAGGAGGAATGGTTACATCTGTGTGAGGAGTTGGTAAGGNAAGACT 840  
Db 86010 AGGAGGACCCAGAGGAGGAATGGTTACATCTGTGTGAGGAGTTGGTAAGGNAAGACT 86069  
Qy 841 TTAATAGAGGGGTCTGTCTGGCTGGGCTTGCAGAGGATGTGTAGGAGTCACTTAGGGGGC 900  
Db 86070 TTAATAGAGGGGTCTGTCTGGCTGGGCTTGCAGAGGATGTGTAGGAGTCACTTAGGGGGC 86129  
Qy 901 ACAAGTACATCCAGGAGAGGGAATTCATPAGGTAAGATCTCAGTGTGTGGTCTGTGG 960  
Db 86130 ACAAGTACATCCAGGAGAGGGAATTCATPAGGTAAGATCTCAGTGTGTGGTCTGTGG 86189  
Qy 961 GGATGGATTTCAAGTATTTCTGGAATGAGACAGCCATGGAAACAGGGCAGGTGAGAGGA 1020  
Db 86190 GGATGGATTTCAAGTATTTCTGGAATGAGACAGCCATGGAAACAGGGCAGGTGAGAGGA 86249  
Qy 1021 TATTTAAGAGGCTTTCATGCCAATGGCTCCACTTCAGTCTTCTGATAAGAACTCAGGTTCCG 1080  
Db 86250 TATTTAAGAGGCTTTCATGCCAATGGCTCCACTTCAGTCTTCTGATAAGAACTCAGGTTCCG 86309  
Qy 1081 TGGACTCCCTGATAAAACTGAATTAAGTTGTTTATGATTTCCCATAGAAATAGAACTCAAA 1140  
Db 86310 TGGACTCCCTGATAAAACTGAATTAAGTTGTTTATGATTTCCCATAGAAATAGAACTCAAA 86369  
Qy 1141 GGAGGTAAGCAAGGGGTGTGCGATTTCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200  
Db 86370 GGAGGTAAGCAAGGGGTGTGCGATTTCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 86429  
Qy 1201 CTTTCTCCAGCACATAAATTTAGCAGCTTTGACCTTAAGACTGCTGTGAGGGCAGGGA 1260  
Db 86430 CTTTCTCCAGCACATAAATTTAGCAGCTTTGACCTTAAGACTGCTGTGAGGGCAGGGA 86489  
Qy 1261 TGCTCCAGGAGACAGCCAGCAAAACAACAGACACAGCTGAAAGTAAAGACTCAGAGGAG 1320  
Db 86490 TGCTCCAGGAGACAGCCAGCAAAACAACAGACACAGCTGAAAGTAAAGACTCAGAGGAG 86549

Qy 1321 ACAGTTGAAGAAGGCAAGTGGCGATG 1346  
Db 86550 ACAGTTGAAGAAGGCAAGTGGCGATG 86575

RESULT 2

US-10-085-612A-4  
; Sequence 4, Application US/10085612A  
; Patent No. 6929912  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Vredenburgh, James  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS  
; FILE REFERENCE: DNA-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612A  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 4  
; LENGTH: 1254  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612A-4

Query Match 87.6%; Score 1179.2; DB 3; Length 1254;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1181; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 163 CACAAAGACAGACATTGCATGTTCTCTCACTTATTGTGGGATCTACAATCAAAACAATTG 222  
Db 3 CACAAAGACAGACATTGCATGTTCTCTCACTTATTGTGGGATCTACAATCAAAACAATTG 62  
Qy 223 AGCTAATGTCGTGGTCTTAGTCAATTTTGTACCTAAGTACAGGAGCAGCAGCAATTAGA 282  
Db 63 AGCTAATGTCGTGGTCTTAGTCAATTTTGTACCTAAGTACAGGAGCAGCAGCAATTAGA 122  
Qy 283 ATACATGATCAATGCTTTAATACAGGAATCAATAGGTGAGAGCAGAGGTGGTGGTG 342  
Db 123 ATACATGATCAATGCTTTAATACAGGAATCAATAGGTGAGAGCAGAGGTGGTGGTG 182  
Qy 343 TTCTTCTGATACATAGTATCTTCTTGCACATTCAGTCAACAACCTCTCAACAGGTAAGTCT 402  
Db 183 TTCTTCTGATACATAGTATCTTCTTGCACATTCAGTCAACAACCTCTCAACAGGTAAGTCT 242  
Qy 403 CTTCAATGATGTTACCTTCTGAGGAATTAAGTGCAGAAATAGTGCCTCTTATTTTCTCT 462  
Db 243 CTTCAATGATGTTACCTTCTGAGGAATTAAGTGCAGAAATAGTGCCTCTTATTTTCTCT 302  
Qy 463 TTGCAGAACAGCAATTCGATTTAGTTGGGAAACAGTGTGGTGTGATCTGAGCCCAA 522  
Db 303 TTGCAGAACAGCAATTCGATTTAGTTGGGAAACAGTGTGGTGTGATCTGAGCCCAA 362  
Qy 523 GCAACCAATAGTCTTATTTGCTATCACACAGACTCAGAGGGGATGACACAGGGGGCCAG 582  
Db 363 GCAACCAATAGTCTTATTTGCTATCACACAGACTCAGAGGGGATGACACAGGGGGCCAG 422  
Qy 583 CAATCTCACCAAGTCAATCTCCACCAATTTCTGGTCAACCAATGTTGATAGTACCC 642  
Db 423 CAATCTCACCAAGTCAATCTCCACCAATTTCTGGTCAACCAATGTTGATAGTACCC 482  
Qy 643 TGCTAGGTCAGGGTCAATGAAGTAAATATACAGACTGTGCTTGGAGAACTCACC 702  
Db 483 TGCTAGGTCAGGGTCAATGAAGTAAATATACAGACTGTGCTTGGAGAACTCACC 542

QY 703 TCTGCTAAGGGAACAGGCACAGAAACCCACAGGCTGTAGAGAGAAATAGGACAATA 762  
Db 543 TCTGCTAAGGGAACAGGCACAGAAACCCACAGGCTGTAGAGAGAAATAGGACAATA 602  
QY 763 GGAAGTCTGTGAGGGGATAGAGGACCCACAGAGAGAAATGGTTACATCTGTGTGAGGA 822  
Db 603 GGAAGTCTGTGAGGGGATAGAGGACCCACAGAGAGAAATGGTTACATCTGTGTGAGGA 662  
QY 823 GGTGTGTAAGAAAGACTTTAATAGAAAGGGCTCTGTCTGGCTGGGCTTGCAGGATGTGT 882  
Db 663 GGTGTGTAAGAAAGACTTTAATAGAAAGGGCTCTGTCTGGCTGGGCTTGCAGGATGTGT 722  
QY 883 AGAGTCTACTAGGGGCAACAGTACACTCCAGGAGAGGAAATTCATGGGTAAAGATC 942  
Db 723 AGAGTCTACTAGGGGCAACAGTACACTCCAGGAGAGGAAATTCATGGGTAAAGATC 782  
QY 943 TGCAGTTGTGGCTTGTGGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGAAA 1002  
Db 783 TGCAGTTGTGGCTTGTGGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGAAA 842  
QY 1003 CAAGGCAAGGTGAGAGGATATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTG 1062  
Db 843 CAAGGCAAGGTGAGAGGATATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTG 902  
QY 1063 ATAAGAACTCAGGTTCCGTGGACTCCCTGATATAAACTGATTAAGTTGTTTATGATTCGCC 1122  
Db 903 ATAAGAACTCAGGTTCCGTGGACTCCCTGATATAAACTGATTAAGTTGTTTATGATTCGCC 962  
QY 1123 ATAGAATATGAACCTCAAGAGAGGTAAAGAAAGGGGTGTGCGATTTCTTTGCTACTGGCT 1182  
Db 963 ATAGAATATGAACCTCAAGAGAGGTAAAGAAAGGGGTGTGCGATTTCTTTGCTACTGGCT 1022  
QY 1183 GCAGCTGCAGCCCCACCTCTCTCCAGCACATAAAACATTTTCAGCAGCTTGACCTAAGAC 1242  
Db 1023 GCAGCTGCAGCCCCACCTCTCTCCAGCACATAAAACATTTTCAGCAGCTTGACCTAAGAC 1082  
QY 1243 TGCCTGTGAGGAGGAGGATGCTCCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1302  
Db 1083 TGCCTGTGAGGAGGAGGATGCTCCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1142  
QY 1303 AAGTAAGACTCAGAGGAG 1346  
Db 1143 AAGTAAGACTCAGAGGAG 1186

## RESULT 3

US-09-949-016-11863  
; Sequence 11863, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: Fast-Seq for Windows Version 4.0  
; SEQ ID NO 11863  
; LENGTH: 35803  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-11863

Query Match 79.7%; Score 1072.6; DB 3; Length 35803;  
Best Local Similarity 89.8%; Pred. No. 0;  
Matches 1210; Conservative 0; Mismatches 124; Indels 13; Gaps 5;

QY 1 GGAAGCAACCTACATGTTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTATGCA 60  
Db 756 GGAAGCAACCTAAGTGTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTATGCA 815  
QY 61 CAATGAGTACAAATTCAGCCATGAAAGAGCATGAGATCTGTCTTTTATAATAAAGCTGG 120  
Db 816 CAATGAGTACAAATTCAGCCATGAAAGAGCATGAGATCTGTCTTTTATAATAAAGCTGG 875  
QY 121 CTGGAACCTGCAAGTCAATATATGTTAGTAAATAAGCCAGGCACACAAAGACAGACATTC 180  
Db 876 ATGGAACCTGAGGTCAATCATGTTAAGTGAATAAGCCAGGCACACAAAGACAGATATTC 935  
QY 181 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAACAAATGAGCTAAATGTCTGGGTCTT 240  
Db 936 AAGTTCTCACATCTTGTGGGATCTACAAATCAAAACAACTGAGCTAAATGTCTGGGTCTT 995  
QY 241 AGTCAATTTGTACCTTAAGTACAGGAGCACAGCCATTTAGAAATACATGATGAATGCTTT 300  
Db 996 AGTCAATTTGTACCTTAAGTACAGGAGCACAGCCATTTAGAAATACATGATGAATGCTTT 1054  
QY 301 AATACAGGAATGAATAGGTGAGAGGACAGAGGTGGTGGTGGTCTTCTGATACATAGTA 360  
Db 1055 AATACAGGAATGAATAGGTGAGAGGACAGAACTGGTGGTGGTCTTCTGATACATAGTA 1114  
QY 361 TCTTCTTGCACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCATG-TATGTTACCT 419  
Db 1115 TCTTCTTGCACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCTCATGTATGTATACCT 1174  
QY 420 TCTGAGGAATTAAGTGGCAGAACATGCTCTCTATTTATTTTCTTTCGAGAACAGACCAA 479  
Db 1175 TATGAGGAATTAAGTGGCAGAACATGATTTCTATTTTCTTTCGAGAACAGACCAA 1234  
QY 480 TTGCATTAGTGTGGGAAACAGTGTGCTGCATCTGAGCCCCCAAGCAACCAATAGTCTATT 539  
Db 1235 CTTTATTAGTGTGGGAAACAGTGTGCTGCATTTGAGTCCCAGCAACCAATAGTCTATT 1293  
QY 540 GTATCACCAAGACTCAGAGGGGATGACACAGAGGGGCCAGCAATCTCACCAAGTCA 599  
Db 1294 GCTATCACCAAGACTCAGAGGGGATGAGAC-----GCCCAAGCAATCTCACCAAGACA 1347  
QY 600 ACTCCACCAACATTTCTGCTCACCACCATGTGTACAGTACCTGTAGGTCAGGTCACGGTC 659  
Db 1348 ACTCCACCAACATTTCTGCTCACCACCATGTGTACAGTACCTGTAGGTCAGGTCACGGTC 1407  
QY 660 ATGAAAGTAAATAATACAGACTGTGCTGCTTGGAGAACTCACCTCTGCTAAGGGAACAG 719  
Db 1408 ATGAAAGTAAATAATACAGACTGTGCTGCTTGGAGAACTCACCTCTGCTAAGGGAACAG 1467  
QY 720 GCACAGAAACCCACAGAGGTGTAGAGAGAAATAGGACAAATAGGACTGTGTAGGGGGA 779  
Db 1468 GCATAGAAACCTTACAATGTGTGTAGAGAGAAAGAGGACAAATAGGACTGTGTAGGGGGA 1527  
QY 780 TAGGAGGACCCAGAGGAGGAAATGTTACATCTGTGTGAGGAGTTGTTAAGGAAAGAC 839  
Db 1528 TAGGAGGACCCAGAGGAGGAAATGTTTACATTTGTGTGAGGAGTTGTTAAGGAAAGAC 1587  
QY 840 TTTAATAGAGAGGGTCTGTCTGCTGGGCTTGCAGGATGTGTAGGAGTCACTAGGGGG 899  
Db 1588 TTTAGCAGAGGGGTCTGTCTGCTGGGCTTGGAGGATACGTAGGAGTCACTAGAGGG 1647  
QY 900 CACAAAGTACATCCAGGACAGAGGAAATTCATGCGGTAAAGATCTGCAGTTGTGGCTTGTG 959  
Db 1648 CACAGGTACATCCAGGACAGAGGAAATTTCTGTTGGGTAAAGATGTGTAGGTGTGGCTTGTG 1707  
QY 960 GGGATGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAAACAGGCGAGGTGAGAG 1019  
Db 1708 AGGATGATTTCAATTTATTTCTAGAAATGAAGGAGGAGCCATGG----AGGGGAGGTGAGAGG 1763  
QY 1020 ATATTTAAGAGGCTTCATGCCAATGGCTCCACTTTCAGTTTCTGATAGAACTCAGGTTC 1079  
Db 1764 AGGTTAATAGATTTCTATGCCAATGGCTCCACTTTCAGTTTCTGATAGAAACCCAGAAACC 1823



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; Patent No. 6812339
;
; GENERAL INFORMATION:
;
; APPLICANT: VENTER, J. Craig et al.
;
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;
; FILE REFERENCE: CL001307
;
; CURRENT APPLICATION NUMBER: US/09/949,016
;
; CURRENT FILING DATE: 2000-04-14
;
; PRIOR APPLICATION NUMBER: 60/241,755
;
; PRIOR FILING DATE: 2000-10-20
;
; PRIOR APPLICATION NUMBER: 60/237,768
;
; PRIOR FILING DATE: 2000-10-03
;
; PRIOR APPLICATION NUMBER: 60/231,498
;
; PRIOR FILING DATE: 2000-09-08
;
; NUMBER OF SEQ ID NOS: 207012
;
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 93499
;
; LENGTH: 601
;
; TYPE: DNA
;
; ORGANISM: Human
;
; US-09-949-016-93499

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Query Match 35.7%; Score 480.6; DB 3; Length 601;  
Best Local Similarity 91.3%; Pred. No. 2.3e-144;  
Matches 549; Conservative 0; Mismatches 34; Indels 18; Gaps 3;

RESULT 6  
US-09-949-016-12963

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; Sequence 12963, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12963
; LENGTH: 31197
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-12963

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Query Match	33.7%	Score	454	DB 3	Length	31197			
Best Local Similarity	76.9%	Pred. No.	9.2e-135						
Matches	663	Conservative	0	Mismatches	125	Indels	74	Gaps	6

Qy	544	TCACCA	CAGACTCAGAGGGGATCACACAGGGGGCCAGCAATCTCACCAAGTCAACTC	603
Db	1261	TCACCA	GAAGTCAGAAGGGATGACATGCAGAGGCCCGACCAATCTCAGCTAAAGTCAACTC	1320
Qy	604	CACCA	CAATTTCTGGTCCACCACCATGTGTACAGTACCCCTGTCTAGGCTTCAGGCTCATGA	663
Db	1321	CACAG	CTTTCTAGTTGGCCACTGTGTGTAACAGACCCCTGTGTAGGACACAGAGCCATGA	1380
Qy	664	AAGTAA	ATAATACCAGACTGTGCCCTTTGAGGAACCTCACCTCTCTAAGGGAAACAGGCAC	723
Db	1381	CAGG	GAATAAGACTAGACTATGCCCTTTGAGGAGCTCACCTCTCTTCAGGGAAACAGGCGT	1440
Qy	724	AGAA	CCCCACAAGGTTGGTAGAGAGGAATAGAGCAATAGGACTGTGTGAGGGGATAGG	783
Db	1441	GGAAA	--CACAATGGTGGTAAAGAGGAAAGAGCAATAGGATTGCATGAAGGGGATGGA	1498
Qy	784	AGSC	ACCCAGAGAGGAATGGTTACATCTGTGTGAGGAGTTGGTAAGAAAGACTTTA	843
Db	1499	AAGT	GCCCAAGGGAGGAATGGTTACATCTGTGTGAGGAGTTTGGTGAGGAAGACTCTA	1558
Qy	844	ATAGA	AGGGTCTGTCTGGCTGGGCTTGCAAGGATGTGTAGGAGTCTATCTAGGGGGCACA	903
Db	1559	AGAA	--GGCTCTGTCTGTCTGGGTTTGAAGGATGTGTAGGAGTCTTCTAGGGGGCACA	1617
Qy	904	AGTAC	ACTCCAGGCAGAGGGAAATGGCATGGGTAAAGATCTGCAGTTGTGTGTTGGGA	963
Db	1618	GGCA	CACTCCAG-----GCATAGGTAAAGATCTGTAGGTGTGGCTGTGTGGGA	1665
Qy	964	TGGA	TTTCAAGTATCTTGGAAATGAAGACAGCCATGGAAAACAAGGGCAGGTGAGAGATAT	1023
Db	1666	TGA	TTTCAAGTATTTTGGAAATGAGGACAGCCATAGAGACAAGGGCAAGAGAGAGGCGAT	1725
Qy	1024	TTAAG	AGGCTTCATGCCAATGGCTCCACTTCAGTTCTTGATTAAGAACTCAGGTTCGTGG	1083
Db	1726	TTA	ATAGATTTTATGCCAATGGCTCCACTTGGATTTCTGTATAGAAACCCAGAACCTTTGG	1785
Qy	1084	ACT	CCCTGTATAAACATGATTAAGTGTGTTATGATTCGCCCATAGAATATGAACCTCAAGGA	1143
Db	1786	ACT	CCCCAGTAACATTTGATTGAGTTGTTTATGATACCTCATAGAAATATGAACCTCAAGGA	1845
Qy	1144	GGTA	AG--CAAGGGGTGTGTGCCATTTCTT-----	1171
Db	1846	GGT	CAGTGAGTGTGTGTGTGTGATTTCTTTGGCAACTTCCNAGGTGAGAGAGCCTCTTC	1905
Qy	1172	-----	-----TGCTACTGGCTGCAGCTGCAGCCCCACCTCCTTC	1205









Db 1848 GGTGAGTGGTGTGTGTGATTAATTTGCCAACTGCCAGGTGGAGAGCCTCTTCC 1907  
Qy 1172 -----TGCTACTGGCTGCAGCTGCAGCCCACTCTTCT 1206  
Db 1908 GACTGCAGGCAGAGCAGGGGGCCCTGCTACTGGCTGCAGCTCCAGCCCTGCTCTTCT 1967  
Qy 1207 CCAGCACAATAAATTTCCAGCAGCTTGACCTAA- GACTGTGTGTCAGGCGAGGATGCTC 1265  
Db 1968 CCAGCATAATAAATAATCCAAAGCCTCACTGAATCACTGTGTGTCAGGCGAGGAAAGCTC 2027  
Qy 1266 CAGCGCAGAGCCAGCAGCAACAACAGCACAGCTGAACTGAAGTAAAGACTCAGAGGAGACAGT 1325  
Db 2028 CACACACAGCCAGCAACAGCAGCAGCCGCTGCTGAAAAAAGACTCAGAGGAGAGAGA 2087  
Qy 1326 TGAAGAAGGCAAGTGGCGATG 1346  
Db 2088 TAAGGAAGGAAGTAGTGATG 2108

RESULT 12  
US-09-949-016-20240/c  
; Sequence 20240, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 20240  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-20240

Query Match 21.6%; Score 290.6; DB 3; Length 601;  
Best Local Similarity 86.9%; Pred. No. 4.4e-83;  
Matches 331; Conservative 1; Mismatches 45; Indels 4; Gaps 1;  
Qy 966 GATTTCAAGTATTCTGGAATGAAGACAGCCATCGAAGGCGAGGTGAGAGATATT 1025  
Db 601 GATTTCAATATTCTAGAATGAAGGCGAGCCATGG----AGGGCGAGGTGAGAGGAGGTT 546  
Qy 1026 AAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGAC 1085  
Db 545 AATAGATTTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGAC 486  
Qy 1086 TCCTGTATAAACTGATTAAGTTGTTTATGATTTCCCATAGATATGAACCTCAAAGAGG 1145  
Db 485 TCCCGGATAACACTGATTAAGCTTTTCATGATTTCTCATAGAACTGAACCTCAAAGAGG 426  
Qy 1146 TAAGCAAAAGGGGTGTGCGATTCTTTGCTACTGCTGAGCTGCAGGCCCACTCTCTTC 1205  
Db 425 TCAGCAAAAGGGGTGTGCGATTCTTTGCTATTTGGCTGCAGCTATAGCCCTGCTCTTC 366  
Qy 1086 TCCTGTATAAACTGATTAAGTTGTTTATGATTTCCCATAGATATGAACCTCAAAGAGG 1145  
Db 485 TCCCGGATAACACTGATTAAGCTTTTCATGATTTCTCATAGAACTGAACCTCAAAGAGG 426  
Qy 1146 TAAGCAAAAGGGGTGTGCGATTCTTTGCTACTGCTGAGCTGCAGGCCCACTCTCTTC 1205  
Db 425 TCAGCAAAAGGGGTGTGCGATTCTTTGCTATTTGGCTGCAGCTATAGCCCTGCTCTTC 366  
Qy 1206 TCAGCACAATAAATTTTCAGCAGCTTGACCTAAAGACTCTGTGTCAGGCGAGGATGCTC 1265  
Db 365 TCAGCACAATAAATTTTCAGCAGCTTGCTGTAAGACTGTGTGTCAGGCGAGGAGCTC 306  
Qy 1266 CAGGCGACAGCCCGCAGCAAAACAGCAACAGCTGAAAGTAAAGTCTAGAGGAGACAGT 1325  
Db 305 CAGGTAACAGCCCGCAGCAAAACAGCACTCAGCTAAAGGAAGACTCAGAGAACACAGT 246

RESULT 14  
US-09-573-080A-348  
; Sequence 348, Application US/09573080A  
; Patent No. 6828097  
; GENERAL INFORMATION:  
; APPLICANT: JOAN, KNOLL  
; APPLICANT: ROGAN, PETER  
; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATING  
; FILE REFERENCE: 30307  
; CURRENT APPLICATION NUMBER: US/09/573,080A

Qy 1326 TGAAGAAGCAAGTGGCGATG 1346  
Db 245 TGAAGAAGGAAGTGGCGATG 225  
RESULT 13  
US-09-949-016-42446/c  
; Sequence 42446, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 42446  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-42446

Query Match 21.6%; Score 290.6; DB 3; Length 601;  
Best Local Similarity 86.9%; Pred. No. 4.4e-83;  
Matches 331; Conservative 1; Mismatches 45; Indels 4; Gaps 1;  
Qy 966 GATTTCAAGTATTCTGGAATGAAGACAGCCATCGAAGGCGAGGTGAGAGATATT 1025  
Db 601 GATTTCAATATTCTAGAATGAAGGCGAGCCATGG----AGGGCGAGGTGAGAGGAGGTT 546  
Qy 1026 AAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGAC 1085  
Db 545 AATAGATTTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGAC 486  
Qy 1086 TCCTGTATAAACTGATTAAGTTGTTTATGATTTCCCATAGATATGAACCTCAAAGAGG 1145  
Db 485 TCCCGGATAACACTGATTAAGCTTTTCATGATTTCTCATAGAACTGAACCTCAAAGAGG 426  
Qy 1146 TAAGCAAAAGGGGTGTGCGATTCTTTGCTACTGCTGAGCTGCAGGCCCACTCTCTTC 1205  
Db 425 TCAGCAAAAGGGGTGTGCGATTCTTTGCTATTTGGCTGCAGCTATAGCCCTGCTCTTC 366  
Qy 1206 TCAGCACAATAAATTTTCAGCAGCTTGACCTAAAGACTCTGTGTCAGGCGAGGATGCTC 1265  
Db 365 TCAGCACAATAAATTTTCAGCAGCTTGCTGTAAGACTGTGTGTCAGGCGAGGAGCTC 306  
Qy 1266 CAGGCGACAGCCCGCAGCAAAACAGCAACAGCTGAAAGTAAAGTCTAGAGGAGACAGT 1325  
Db 305 CAGGTAACAGCCCGCAGCAAAACAGCACTCAGCTAAAGGAAGACTCAGAGAACACAGT 246

RESULT 14  
US-09-573-080A-348  
; Sequence 348, Application US/09573080A  
; Patent No. 6828097  
; GENERAL INFORMATION:  
; APPLICANT: JOAN, KNOLL  
; APPLICANT: ROGAN, PETER  
; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATING  
; FILE REFERENCE: 30307  
; CURRENT APPLICATION NUMBER: US/09/573,080A

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; CURRENT FILING DATE: 2000-05-16
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 348
; LENGTH: 7678
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: repeat region
; LOCATION: (1)..(7678)
; OTHER INFORMATION: l1p_ma2
; NAME/KEY: misc feature
; OTHER INFORMATION: n is a, c, g or t
; PUBLICATION INFORMATION:
; PUBLICATION INFORMATION:
; AUTHORS: Jurka, J; Walichiewicz, J; Milosavljevic, A
; TITLE: Prototypic sequences for human repetitive DNA
; JOURNAL: Journal of Molecular Evolution
; VOLUME: 35
; ISSUE: 4
; PAGES: 286-291
; DATE: 1992-10-
; DATABASE ACCESSION NUMBER: Database of repetitive elements (repbase)
; DATABASE ENTRY DATE:
; DATABASE ENTRY DATE: 1996-01-26
; US-09-573-080A-348

Query Match 12.6%; Score 169.2; DB 3; Length 7678;
Best Local Similarity 85.7%; Pred. No. 2.9e-43;
Matches 197; Conservative 2; Mismatches 30; Indels 1; Gaps 1;

Qy 1 GGAAGCAACCTACATGTCCTCAACAGATGAATGGGTAAGAGAGAGTACTTCACTTATGCA 60
Db 7114 GGAAGCAACCTAAAGTGTCCATCAACAGATGAATGGGTAAGAGAGAGTACTTCACTTATGCA 7173

Qy 61 CAATGGAGTACTATTCAGCCAT-AAAAAGAAATGAGATCCTGTCTTTATAATAACGTTG 120
Db 7174 CAATGGAGTACTATTCAGCCAT-AAAAAGAAATGAGATCCTGTCTTTATAATAACGTTG 7232

Qy 121 CTGGAAGTGCAGGTCAATATGTTAGGTAAATAAGCCAGGACACAAAGACAGCATTCG 180
Db 7233 ATGGAAGTGCAGGTCAATATGTTAGGTAAATAAGCCAGGACACAAAGACAGCATTCG 7292

Qy 181 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAACAAATGAGCTAATG 230
Db 7293 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAACAAATGAGCTAATG 7342

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US-09-573-080A-73
; Sequence 73, Application US/09573080A
; Patent No. 682897
; GENERAL INFORMATION:
; APPLICANT: JOAN, KNOELL
; APPLICANT: ROGAN, PETER
; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATI
; FILE REFERENCE: 30307
; CURRENT APPLICATION NUMBER: US/09/573,080A
; CURRENT FILING DATE: 2000-05-16
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 73
; LENGTH: 1055
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: repeat region
; LOCATION: (1)..(1055)
; OTHER INFORMATION: l1ma2
; NAME/KEY: misc feature
; OTHER INFORMATION: n is a, c, g or t
; PUBLICATION INFORMATION:
; PUBLICATION INFORMATION:
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; AUTHORS: Jurka, J; Walichiewicz, J; Milosavljevic, A
; TITLE: Prototypic sequences for human repetitive DNA
; JOURNAL: Journal of Molecular Evolution
; VOLUME: 35
; ISSUE: 4
; PAGES: 286-291
; DATE: 1992-10-
; DATABASE ACCESSION NUMBER: Database of repetitive elements (repbase)
; DATABASE ENTRY DATE:
; DATABASE ENTRY DATE: 1996-01-26
; US-09-573-080A-73

Query Match 12.4%; Score 167.2; DB 3; Length 1055;
Best Local Similarity 83.5%; Pred. No. 4e-43;
Matches 192; Conservative 7; Mismatches 30; Indels 1; Gaps 1;

Qy 1 GGAAGCAACCTACATGTCCTCAACAGATGAATGGGTAAGAGAGAGTACTTCACTTATGCA 60
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Db 658 ATGTTCTCACTTATTTGTGGGATCTACAAATCAAAACAAATGAGCTAATG 707

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Job time : 289 secs
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:09:29 ; Search time 1245 Seconds  
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Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1179.2	87.6	1254	5	US-10-085-612-4
2	1141.6	84.8	2214	4	US-09-925-065A-675137
3	1072.6	79.7	177531	8	US-10-484-577-660
4	1021.2	75.9	96960	8	US-10-484-577-662
5	730.2	54.2	8776	7	US-10-257-166-149
6	616.8	45.8	8776	7	US-10-257-166-150
7	455.6	33.8	13035	6	US-10-121-960C-14
8	438.8	32.6	1345	5	US-10-146-575-3
9	438.8	32.6	1345	5	US-10-085-612-3
10	438.4	32.6	1345	3	US-09-943-115A-1
11	433	32.2	15185	6	US-10-121-960C-17
12	420.6	31.2	12983	9	US-10-415-607-1
13	394.8	29.3	11186	3	US-09-957-997-1
14	394.8	29.3	11186	9	US-10-415-607-4
15	387.2	28.8	1012	3	US-09-957-997-4
16	263.6	19.6	611	4	US-09-925-065A-839692
17	240.4	17.9	8943	7	US-10-257-166-47
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20	169.2	12.6	7678	3	US-09-854-867-348
21	169.2	12.6	7678	9	US-10-786-370A-348
22	167.2	12.4	1055	3	US-09-854-867-73
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ALIGNMENTS

RESULT 1  
US-10-085-612-4  
; Sequence 4, Application US/10085612  
; Publication No. US20030096251A1  
; GENERAL INFORMATION:  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Vredenburg, James  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals  
; TITLE OF INVENTION: Compositions Therefor  
; FILE REFERENCE: 4389-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 4  
; LENGTH: 1254  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612-4  
  
Query Match 87.6%; Score 1179.2; DB 5; Length 1254;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1181; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
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Db 3 CACAAAGACAGACATTCGATGTTCTCATTATTTGGGATCTACAAATCAAAACAATTG 62  
QY 223 AGCTAATGTCGGGTCCTAGTCAATTTGTACCCTAAGTACAGGGAGCACAGCCATTAGA 282  
Db 63 AGCTAATGTCGGGTCCTAGTCAATTTGTACCCTAAGTACAGGGAGCACAGCCATTAGA 122  
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Db 123 ATACATGATGAATGCTTTAATACAGGAATGAATAGGTGAGGACACAGGGTGGTGGGTG 182  
QY 343 TTCTTCTGATACATAGTATCTTCCTTGGACACATTCATCAACTCTCAACAGGTAGTCT 402

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QY  
403 CTTTCATGTATGTTACCTTCTGAGGAAATTAAGTGCAGAAACATGCTTCTATTTATTTTCC 462  
Db  
243 CTTTCATGTATGTTACCTTCTGAGGAAATTAAGTGCAGAAACATGCTTCTATTTATTTTCC 302  
QY  
463 TTGCAGAACAGACCAATTCATTTAGTTGGGAAACAGTGTGGTGTGATCTGAGCCCCAA 522  
Db  
303 TTGCAGAACAGACCAATTCATTTAGTTGGGAAACAGTGTGGTGTGATCTGAGCCCCAA 362  
QY  
523 GCACACATTTAGTCTATTTGCTATACCAAGACTCAGAGGGATGACACACAGGGGCCAG 582  
Db  
363 GCACACATTTAGTCTATTTGCTATACCAAGACTCAGAGGGATGACACACAGGGGCCAG 422  
QY  
583 CAATCTCACCAAGTCAACTCCACCAATTTCTGTCACCCACCAATGCTGACAGTACCC 642  
Db  
423 CAATCTCACCAAGTCAACTCCACCAATTTCTGTCACCCACCAATGCTGACAGTACCC 482  
QY  
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Db  
483 TGCTAGGGTCCAGGGTCAATGAAAGTAAATAATACAGACTGTGCCCTTGAGGAACCTCAC 542  
QY  
703 TCTGCTAAGGAAACAGGCAAGGCAAGGCAAGGCTGAGAGGAAATAGGACAAATA 762  
Db  
543 TCTGCTAAGGAAACAGGCAAGGCAAGGCTGAGAGGAAATAGGACAAATA 602  
QY  
763 GGAAGTGTGAGGGGATAGGAGGACCCAGAGGAGAAATGCTTACATCTGTGTAGGA 822  
Db  
603 GGAAGTGTGAGGGGATAGGAGGACCCAGAGGAGAAATGCTTACATCTGTGTAGGA 662  
QY  
823 GGTGGTGAAGGAAAGACTTTAATAAGAGGGTCTGTCTGGCTGGGCTTGCAAGGATGTGT 882  
Db  
663 GGTGGTGAAGGAAAGACTTTAATAAGAGGGTCTGTCTGGCTGGGCTTGCAAGGATGTGT 722  
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Db  
723 AGGAGTCACTAGGGGGCAAGATGACACTCAGGACAGAGGAAATGCGTAAAGATC 782  
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943 TGCAAGTGTGGCTTGTGGGGATGATTTCAAGTATCTGGAATGAAGACAGCCATGAAA 1002  
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QY  
1123 ATAGAAATAGAACTCAAGAGGATGAAGCAAGGGGTGTGCGATTTCTTTGCTACTGGCT 1182  
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963 ATAGAAATAGAACTCAAGAGGATGAAGCAAGGGGTGTGCGATTTCTTTGCTACTGGCT 1022  
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1303 AAGTAAGNCTCAGAGGACAGTTGAAGAGGCAAGTGGCGATG 1346  
Db  
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US-09-925-065A-675137  
; Sequence 675137, Application US/09925065A  
; Publication No. US2005028172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.

; TITLE OF INVENTION: Identification and Mapping of Single  
; FILE REFERENCE: Nucleotide Polymorphisms in the Human Genome  
; CURRENT APPLICATION NUMBER: US/09/925, 065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 675137  
; LENGTH: 2214  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-675137  
  
Query Match 84.8%; Score 1141.6; DB 4; Length 2214;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1144; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
  
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Db 1 GGGATCTACAAATCAAAACAAATTTGAGCTAATGCTGGTCTTAGTCAATTTGTACCCCTA 60  
QY 259 AGTACAGGGAGCAGAGCCATTAGAAATACATGATGAATGCTTTTAATACAGGAATGAATAGG 318  
Db 61 AGTACAGGGAGCAGAGCCATTAGAAATACATGATGAATGCTTTTAATACAGGAATGAATAGG 120  
QY 319 TGAGAGGCAAGGGTGGTGGTGGTCTTCTCGATAATAGTATCTTCTTGCACATTCACATTC 378  
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QY 379 GTACAACTCTCAACAGGTAACTCTTTCATGATGTTACCTCTGAGGAATTAAGTGGCA 438  
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Db 301 GTGCTGGCTGCATCTGAGCCCCCAAGCAACCAATTTAGTCTATTTGCTATCACCAGACTCAG 360  
QY 559 AGGGGATGACACACAGGGGCCAGCAATCTCACCAGTCACTCCACCAACATTTCTTGG 618  
Db 361 AGGGGATGACACACAGGGGCCAGCAATCTCACCAGTCACTCCACCAACATTTCTTGG 420  
QY 619 TCACCCACCAATGTGACAGTACCTGCTAGGGTCCAGGGTCAATGAAAAGTAAATATACCA 678  
Db 421 TCACCCACCAATGTGACAGTACCTGCTAGGGTCCAGGGTCAATGAAAAGTAAATATACCA 480  
QY 679 GACTGTGCCCTTGAGGAATCTCAGCTTGTCTGCTAGGGAAACAGGCAAGAAACCCCAAGGG 738  
Db 481 GACTGTGCCCTTGAGGAATCTCAGCTTGTCTGCTAGGGAAACAGGCAAGAAACCCCAAGGG 540  
QY 739 TGGTAGAGGAATAGGAACAATAGGACTGTGTGAGGGGATAGGAGGCCACCCAGAGGAG 798  
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Db

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Qy	979	CTGGATAGAGACAGCCATGGAAACAGGCGCAGGTGAGAGGATATTTAAGAGGCTTCATG	1038	Qy	241	AGTCAATTTTGTACCTTAAGTACAGGGACACAGCCATTTAGAAATACATGATGATGCTTTT	300
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Qy	1039	CCAATGGCTCCACTTCAGTTTCTGATAAAGAACTCAGGTTCCGTGGGACTCCCTGATATAAAC	1098	Qy	301	AATACAGGAATGAATAGGTGAGAGGCACAGGGTGGTGGGTGTTCTTCTGTATACATAGTA	360
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Qy	1099	TGATTAAGTTGTTTATGATTTCCCATAGATAATGAATCAAAAGGAGGTAAAGCAAGGGGT	1158	Qy	361	TCTTCTTGACACATTCAGTACAACTCTCAACAGGTAAGTCTCTTTCATG-TATGTTTACCT	419
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US-10-484-577-660							
; Sequence 660, Application US/10484577							
; Publication No. US20050032724A1							
; GENERAL INFORMATION:							
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft							
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGTLA							
; FILE REFERENCE: P2285PCT-1							
; CURRENT APPLICATION NUMBER: US/10/484,577							
; PRIORITY FILING DATE: 2004-01-22							
; PRIORITY FILING DATE: 2004-01-22							
; PRIORITY FILING DATE: 2002-07-23							
; PRIORITY FILING DATE: 2001-07-23							
; PRIORITY FILING DATE: 2001-07-23							
; PRIORITY FILING DATE: 2002-05-24							
; NUMBER OF SEQ ID NOS: 683							
; SOFTWARE: PatentIn version 3.1							
; SEQ ID NO 660							
; LENGTH: 177531							
; TYPE: DNA							
; ORGANISM: Homo sapiens							
US-10-484-577-660							
Query Match							
Best Local Similarity 79.7%; Score 1072.6; DB 8; Length 177531;							
Matches 1210; Conservative 0; Mismatches 124; Indels 13; Gaps 5;							
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Db	14581	GGAAGCAACCTTACATGTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTATGCA	14640	Db	15649	TTGGACTCCCTGATAAAACCTGATTAAGTTGTTTATGATTTCCCATAGAATAATGAACCTCAA	15708
Qy	61	CAATGAGTACAATTGAGCCATGAAAAGAGCATGAGATCTGTCTTTTATTAATTAACGTGG	120	Qy	1140	AGGAGTAAAGCAAAAGGGGTGTGCGATTTCTTTGCTACTGGCTGACAGCTGCAGCCCCACC	1199
Db	14641	CAATGAGTACAATTGAGCCATGAAAAGAGCATGAGATCTGTCTTTTATTAATTAACGTGG	14700	Db	15709	AAGAGTCAAGCAAAAGGGGTGTGCGATTTCTTTGCTACTGGCTGACAGCTATAGCCCTGCC	15768
Qy	121	CTGGAATGCGAGTCAATTATGTTAGGTAAATTAAGCCAGGCACACAAAGACAGACATTCG	180	Qy	1200	TCTTCTCCAGCACATAAATCTTTTACAGAGCTTTCAGAGCTGCTGCTGAGAGTCTGCTGAGGGCAGGG	1259
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Qy	1260	ATGCTCAGCAGACAGCCCGAACAACAGCA	CACAGCTGAAAGTAAAGTCA	GAGGA	1319
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Qy	1320	GACAGTTGAAGCAAGGCAAGTGGCGATG			1346
Db	15889	CACAGTTGAAGCAAGGAAAGTGGCGATG			15915

## RESULT 4

US-10-484-577-662  
; Sequence 662, Application US/10484577  
; Publication No. US20050032724A1  
; GENERAL INFORMATION:  
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A  
; FILE REFERENCE: F2285PCT-1  
; CURRENT APPLICATION NUMBER: US/10/484,577  
; PRIOR FILING DATE: 2004-01-22  
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
; PRIOR FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
; PRIOR FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: EP 02011710.7  
; PRIOR FILING DATE: 2002-05-24  
; NUMBER OF SEQ ID NOS: 683  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 662  
; LENGTH: 96560  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-484-577-662

Query Match	75.9%	Score 1021.2;	DB 8;	Length 96960;
Best Local Similarity	85.2%	Pred. No. 0;		
Matches 1252; Conservative	0;	Mismatches 93;	Indels 125;	Gaps 5;

Qy	1	GGAAAGCAACCTCATGTCCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA	60
Db	92152	GGAAAGCAACCTAAGTGTCCATCAACAGATGAATGGATAAAGAAAGTGTCCACCTTATACA	92211
Qy	61	CAATGGAGTACAATTCAAGCCATGAAAAAAGCATGAGATCCTGTCTTTATATAACGTGG	120
Db	92212	CAATGGAGTACAATTCAAGATACGAAAAAAGCATGAGATCTTGTATCTGTAATAACATGG	92271
Qy	121	CTGGAACTGCAGGTCAATTATGTAGTTAGTTAAATAAAGCCAGGCACACAAAGACAGACATTGC	180
Db	92272	ATGGAACCTGGAGTCAATCATGTTTAAGTGAATAAAGCCAGGCACAGAAAAGACAGACATTGC	92331
Qy	181	ATGTTCTCACTATTATTGTGGGATCTACAAATCAAAACAATTCAAGCTAATGTCTGGGTCCT	240
Db	92332	ATGTTCTCACTATTATTGCAAGATCTACAAATCAAAACAATTCAAGCTAATGTCTGGGTCCT	92391
Qy	241	AGTCAATTTTGTACCTCAATAGTACAGGGAGCAGCGCATTTAGAAATACATGATGAATGCTTT	300
Db	92392	AGTCAATTTTGTACCTCAATAGTACTGTGAGCAGAGCTTTTAAATAACATGATGAATGCTTT	92451
Qy	301	AATACAGGAATGAATAGGTGAGAGGCACAGGGTG--GTTGGGTGTTCTTCTGATACATAG	358
Db	92452	AATACAGGAATGAATAGATTAAGAGGCACAGGGTGCTCTGGGTGTTCTTCTGATACATAG	92511
Qy	359	TATCTTCTTTGACACATTCAGTACAACTCTCAACAGGTAAGTCTCTTCAAG--TATGTTTAC	417
Db	92512	TATCTTCTTTGACACATTCAGTACAACTCTTCAGCAGTAAGTCTCTTCATGTATATGTTAC	92571
Qy	418	CTTCTGAGGAATTAAGTGGCAGAACGCTCTCTATTTATTTTCTTTGAGAAACAAGACC	477
Db	92572	CTTCTGAGGAATTAAGTGGCAGAACATGCTCTCTATTTTCTTTGAGAAACAAGACC	92631
Qy	478	AATTGCATTAGTTGGGAAACAGTCTGGCTGCATCTGAGCCCAAGCAACCAATTAGTCTA	537
Db	92632	AGTTGCATTAGTTGGGACACAGTCTGGCTGCATCTGAGTCTGCAAGCAACCAATTAGTCTA	92691

Qy	538	TTG-----CTATCA	CCACAGACTCAGAGGGGATGACACACAGGGGCCAG	582
Db	92692	TTGCTGAGAGTAATTAAGTCTATTCTTCA	CAGACTTACAGAGGGGATGACACACAGGGGCCAG	92751
Qy	583	CAATCTCACCCAAAGTCAACTCTGC	CAACAACTTTCGTGCACCACTGTGTACGTACCC	642
Db	92752	CAATCTCACCCAAAGTCAACTCTGC	CAACAACTTTCGTGCACCACTGTGTACGTACCT	92811
Qy	643	TGCTAGGGTCCAGGGTCATGAAAGTAATAATAC	CAGACTGTGCCCTTGAGGAATCTACC	702
Db	92812	TGCTAGGGTCCAGGGTCATGAAAGTAATAATAC	CAGACTGTGCCCTTGAGGAGCTACC	92871
Qy	703	TCTGCTAAGGGAAACAGGCACAGAAACCCACA	AGGGTGTGTAGAGGAGAAATAGGACAATA	762
Db	92872	TCTGCTAAGGGAAACCGGCACAGAAACCCACA	ATGTGTCTAGAGGAGAAAGAGGACAATA	92931
Qy	763	GGACTGTGTAGGGGATAGGAGGCCAC	CAGAGGAGGAATCGTTACATCTGTGTGAGGA	822
Db	92932	GGACTTTGTGA-GGG	GATAGGAGGCCACCCAGAGGAGGAATCGTTACATCTGTGTGAGGA	92990
Qy	823	GGTTGGTAAAGGAAGCTTTAATAAGAGGGGTCTGT	CTGCGCTGGGCTTGCAAGGATGTGT	882
Db	92991	GGTTGGTAAAGTAAAGCTTTAACAAGAGGGGTCTGT	CTGCTGCTGGGCTTGGAGGATGTGT	93050
Qy	883	AGAGTCACTTAGGGGGCAACAATGTA	CACCTCAGGCAGAGGGAATTGCAATGGGTAAAGATC	942
Db	93051	AGGAGTCACTCAGGGGGCA	CAGGTAACCTCAGGCAGAGGGAATTGCAATGGGTAAAGATC	93110
Qy	943	TGCAGTTGTGGCTTGTGGGGATCGAATTC	CAAGTATTTCTGGAATAGAGCAGCCATGGAAA	1002
Db	93111	TGTAGGTATGGCTTGTGGGGATCGAATTC	CAAGTATTTCTGGAATAGAGCAGCCATGGAAA	93170
Qy	1003	CAAGGGCAGGTGAGAGGATATTTAA	GAGGCTTCATG-----	1038
Db	93171	CAAGGACAGGTGAGAGGAGATTTAA	CAGATTTTCATGCCAACATGGCACATGATACATAT	93230
Qy	1039	-----	-----	1038
Db	93231	GTAAACAAACCTGCACATTTTG	GCACATGTACCTTAAACATTAAGATATATAATAATAA	93290
Qy	1039	-----	-----CCATGGCTCCACTTCAGTTTCTCATAGAAGACTCAGGT	1076
Db	93291	TTAAAAAANAATAGATTCATAC	CAATGGCCCCACTTCAGTTTCTCATAGAAGACTCAGAT	93350
Qy	1077	TCGGTGGACTCCCTGATAAACTGA	TAAAGTTGTTTATCATTTCCCATAGAAATATGAAT	1136
Db	93351	TCCTTGGACTCCCTGATACATGA	TAAAGTTGTTTATCATTTCCCATAGAAACATGAAT	93410
Qy	1137	CAAGGAGGTAAACAAAGGGGTGTGCGAATCT	TTTGTGCTATCGGCTGACAGTGCAGCCCC	1196
Db	93411	CAAGGAGGTCA	TAAAGGGGTGTGTGATTTCTTTGCTACTCGGCTGACAGTGCAGCCCC	93470
Qy	1197	ACCTCCTTCTCCAGCACATAA	CATTTTCAGAGCTTGACCTAAGACTGCTGTGCGAGGCA	1256
Db	93471	GCCTCCTTCTCCAGCACATAA	CATTTTCAGAGCTTTGTCCTAAGACTGCTGTGCGAGGCA	93530
Qy	1257	GGGATGCTCCAGGCAGACAGCCCCAGCAAA	CAACAGCACACAGCTGAAAGTAAAGTCTCAGA	1316
Db	93531	GGGAGCTCCAGGCAGACAGCCCCAGCA	AAACAGCACACAGCTGAAAGTAAAGTCTCAGA	93590
Qy	1317	GGAGACAGTTTGAAGAAGGCAAGTGGCGATG	1346	
Db	93591	GAAGACAGTTTGAAGAAGGCAAGTGGCAACG	93620	

RESULT 5  
US-10-257-166-149  
; Sequence 149, Application US/10257166  
; Publication No. US20040023230A1  
; GENERAL INFORMATION:  
; APPLICANT: OLEK, Alexander  
; APPLICANT: PIEPENBROCK, Christian



APPLICANT: BERLIN, Kurt  
TITLE OF INVENTION: Method and Nucleic Acids for Analysing the Methylation of  
FILE OF INVENTION: Genes Implicated in Pharmacogenomics  
FILE REFERENCE: 5013.1011  
CURRENT APPLICATION NUMBER: US/10/257,166  
CURRENT FILING DATE: 2002-10-07  
PRIOR APPLICATION NUMBER: PCT/EP01/07470  
DE 10032529.7  
DE 10043826.1  
PRIOR FILING DATE: 2001-06-29  
2000-06-30  
2000-09-01  
NUMBER OF SEQ ID NOS: 178  
SEQ ID NO 149  
LENGTH: 8776  
TYPE: DNA  
ORGANISM: Artificial Sequence  
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-257-166-149

Query Match 54.2%; Score 730.2; DB 7; Length 8776;  
Best Local Similarity 73.9%; Pred. No. 1.6e-222;  
Matches 996; Conservative 0; Mismatches 338; Indels 13; Gaps 5;

QY 1 GGAAGCAACCTACATGTCCTCAACAGATGAATGGGTAAAGAGAGACTTCACTTATGCA 60  
DB |||||  
QY 61 CAATGGAGTCAATTCAGCCATGAAGAAAGCATGAGATCTGCTCCCTTTATAAAGCTGG 120  
DB |||||  
QY 3816 TAAATGAGTATAAATTTAGTTATGAAAGGATGATGAGATTTTGTATTGTAATAATGG 3875  
DB |||||  
QY 121 CTGGAATCGAGGTCAATGTTAGTAAATAGCCAGGACACAGAAAGACACATTC 180  
DB |||||  
QY 3876 ATGGAATGGAGGTATATGTTAAGTGAATAGTTAGGTATAGAAATATAGATATTGT 3935  
DB |||||  
QY 181 ATGTTCTCACTTATTTGGGATCTCAAAATCAAAATGAGCTAAATGCTGGGTCTT 240  
DB |||||  
QY 3936 AAGTTTTTATATATTTGGGATTTATAAATTAATAATGTTAGTTAAATGTTGGGTTT 3995  
DB |||||  
QY 241 AGTCAATTTGTACCCTAAGTACAGGAGCAGACCCATTAGATACATGATGATGCTTT 300  
DB |||||  
QY 3996 AGTTAGTGTGTA-TTTAAGTATTTGGGATATAGTTTAAAAATATATATGAATGTTT 4054  
DB |||||  
QY 301 AATACAGGAATGAATAGTCTAGAGGACAGGGTGTGTTGGGTGTTCTTCGATACATAGTA 360  
DB |||||  
QY 4055 AATATAGGAATGAATAGATAGAGAGGTATAAATGGTGGGTGTTTTTTTGTATATAGTA 4114  
DB |||||  
QY 361 TCTTCTTGACACATTCAGTACAACTCTCAACAGGTAACTCTCATG-TATGTTACCT 419  
DB |||||  
QY 4115 TTTTCTTGATAGATTAGTATATATTTTAAATAGGTAAATTTTATGTTATGTTATT 4174  
DB |||||  
QY 420 TCTGAGAAATTAAGTGCAGAAATGCTCTTATATTTCTTTTGGCAGAACCAAGACAA 479  
DB |||||  
QY 4175 TATGAGAAATTAAGTGTAGATATGATTTTATTTTATTTTGTGTAATAAGATTAA 4234  
DB |||||  
QY 480 TTGCATTTAGTTGGAAACAGTGTGCTGATCTGAGCCCAAGCAACATTTAGTCTATT 539  
DB |||||  
QY 4235 TTTTATTTAGTTGGATATAGT-TGGTGTATTTTGAATTTTAAAGTAAATTTAGTTATT 4293  
DB |||||  
QY 540 GCTATCACCAGACTCAGAGGGGATGACACACAGGGGGCCAGCAATCTCACCAAGTCA 599  
DB |||||  
QY 4294 GTTATTTATAGATTAGAGGGGATGAGAC-----GTTTAGTAAATTTTATAGATA 4347  
DB |||||  
QY 600 ACTCCACCAATTTCTGGTCAACCCATGTCAGTACAGTACCCTGCTAGGGTCCAGGGTC 659  
DB |||||  
QY 4348 ATTTTATTAATTTTGGTTATTTATATGCTATAGTATTTTGTAGGAATTTAGGTT 4407  
DB |||||  
QY 660 ATGAAAGTAAATTAATACCAGACTGTGCCCTTGGAGAACTCACCTCTGCTAAGGAAACAG 719  
DB |||||  
QY 4408 ATGAAAGTAAATTAATAGATTGTTGTTTTTGGAGGTTTATTTTGTAAAGGGAATAG 4467  
DB |||||

## RESULT 6

US-10-257-166-150/c

; Sequence 150, Application US/10257166

; Publication No. US2004002320A1

; GENERAL INFORMATION:

; APPLICANT: OLEK, Alexander

; APPLICANT: PIBENBROCK, Christian

; APPLICANT: BERLIN, Kurt

; TITLE OF INVENTION: Method and Nucleic Acids for Analysing the Methylation of

; TITLE OF INVENTION: Genes Implicated in Pharmacogenomics

; FILE REFERENCE: 5013.1011

; CURRENT APPLICATION NUMBER: US/10/257,166

; CURRENT FILING DATE: 2002-10-07

; PRIOR APPLICATION NUMBER: PCT/EP01/07470

; DE 10032529.7

; DE 10043826.1

; PRIOR FILING DATE: 2001-06-29

; 2000-06-30

; 2000-09-01

; NUMBER OF SEQ ID NOS: 178

; SEQ ID NO 150

; LENGTH: 8776

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)

; US-10-257-166-150

Query Match		45.8%	Score 616.8;	DB 7;	Length 8776;
Best Local Similarity		68.8%	Pred. No. 4.3e-186;		
Matches		924;	Conservative	0;	Mismatches 407; Indels 13; Gaps 5;
Qy	3	AAGCACTACATGTCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGACACA	62		
Db	5019	AAACAACCTAAATATCCATCAACAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	4960		
Qy	63	ATGAGGTACAAATTCAGCCATGAAAAAGAGTGAATCCTGCTCTTATATAATAAGTGGCT	122		
Db	4959	ATAAACAACAATTCACCAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	4900		
Qy	123	GGAACTCAGGTCAATATGTTAGGTAAATAAGCCAGGCACACAAAGACAGACATTCGAT	182		
Db	4899	AAAACCTAAATCATCATATTAATAATAATAAACAACAAACACAAATATTACAA	4840		
Qy	183	GTTCTCATCTTATTTGTTGGGATCTACAAATCAAAACAAATGAGTGAATGCTGGGTCTTAG	242		
Db	4839	ATTCTCACATCTTATAAATCTACAAATCAAAACCACTAAACTTAATATCTAAACCTTAA	4780		
Qy	243	TCAATTTTGTACCTTAAGTACAGGAGCAGCCATTAGAATACATGATCAATGCTTTAA	302		
Db	4779	TCAATATTATACCC-AAATACTAAAAACAACCTTTTAAATAATACATCAATAACTTTAA	4721		
Qy	303	TACAGGAATGAATAGGTGAGAGGCACAGGGTGGTGTCTTCTGTACATACATAGTATC	362		
Db	4720	TACAAAATAATAATAAATAAACAACAATAAATAAATAAATAAATAAATAAATAAATAA	4661		
Qy	363	TTCTTGAACATTCAGTACAACTCTCAACAGGTAAAGTCTCTTCAT-GTATGTTACCTTC	421		
Db	4660	TTCTTAAACAAATCAATAACAACTCTCAACAAATAAATCTCTCATATATTATTACCTTA	4601		
Qy	422	TGAGGAATTAAGTGGCAGACATCCCTCTATATTTTCTTTTCTTTCAGAAACAAGACCAAT	481		
Db	4600	TAAAAATTAATAAACAACAACAATAATTTCTATTATTTTCTTTTACAAAAACAACCAACT	4541		
Qy	482	GCATTAGTTGGAAACAGTGTGCTGCTGATCTGAGCCCCAAGCAACCAATAGTCTATTGC	541		
Db	4540	TTATTAAATTAACAACAAT-ATACTACATTTAAATCCCAACAACCAATTAATCTATTAC	4482		
Qy	542	TATCACCACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCACCAAGTCAAC	601		
Db	4481	TATCACCACAAAAACAAAAAATAAATAAC-----GCCCAACATCTCACCAAAAAACAC	4428		
Qy	602	TCCACCAACATTTCTGTGTCACCAACCATGTGTACAGTACCTGCTAGGTCAGGGTCAT	661		
Db	4427	TCCACCAACATTTCTTAATATCCCAACCATATATACAATACCCCTATAAAACCAAAATCAT	4368		
Qy	662	GAAAGTAAATAACACAGACTGTGCCCTTGAGGAACTCACCTCTGTAAAGGAAACAGGC	721		
Db	4367	AAAAATAATAATACCAAACTATACCTTTAAAAAACTCACCTCTACTTAAAAAAACAAC	4308		
Qy	722	ACAGAAACCCCAAGGGTGTAGAGAGAAATAGGA CAATAGGACTGTGTGAGGGGGATA	781		
Db	4307	ATAAAAACTTACAATAATAATAAAAAAATAAATAAATAAATAAATAAATAAATAAATAA	4248		
Qy	782	GGAGGCCCCAGAGAGGAATGTGTACATCTGTGTGAGGAGGTGTGTAGGAAGACTT	841		
Db	4247	AAAAAACCCCAAAAAAATAAATAATTAATTAATAAATAAATAAATAAATAAATAAATAA	4188		
Qy	842	TAAATAGAGGGGTCTGTCTGGCTGGCTTGCAAGATGTGTGAGGATCATCTAGGGGCA	901		
Db	4187	TAAACAAAAAATCTATCTAACTAACTTAAAAAATAACGTAAAAATCACTTAAAAACA	4128		
Qy	902	CAAGTACATCTCCAGGCAGAGGAATTCATGGGTAAAGATCTGCAAGTTGTGGCTTGTGGG	961		
Db	4127	CAAAATACACTCCAACAACAAAAAATTTGTAATAAATAAATAAATAAATAAATAAATAA	4068		
Qy	962	GATGGATTTCAAGTATTCTGAAATGACAGACGACCATGGAACAAGGGCAGGTGAGAGAT	1021		
Db	4067	AATAAATTTCAATTATTTCTAAATAAATAAACAACCATAAAAA-----CAAAATAAAAAA	4012		
Qy	1022	ATTTAAGAGGCTTCATGCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCGGT	1081		

Db	4011	
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Db 12427 AGGTCCAGGGAGGAAATGGTTAATCTGTGTGAGGAGTTTGGTGAGGAAAGACTCTTA 12486
QY 844 ATAGAAGGGGTCTGTCTGGCTGGGCTTTGCAAGGATGTGTAGGAGTCAATCTAGGGGGCACA 903
Db 12487 AGAGAA-GGCTCTGTCTGTGGGTTTGGAGGATGTGTAGGAGTCTTCTAGGGGGCACA 12545
QY 904 AGTACACTCCAGGCAGAGGGAATTCATGGGTAAAGATCTGCAGTTGTGTGGCTTGTGGGA 963
Db 12546 GGCACACTCCAG-----GCATAGGTAAAGATCTGTAGGTGTGGCTTGTGGGA 12593
QY 964 TGGATTTCAAGTATTCCTGGAATGAAGACAGCCATGGAAACAAGGGCAGGTGAGAGGATAT 1023
Db 12594 TGAATTTCAAGTATTTTGGAAATGAGGACAGCCATAGAGACAAGGGCAGAGAGGCGAT 12653
QY 1024 TTAAGAGGCTTCATGCGCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGG 1083
Db 12654 TTAATAGATTTTATGCCAATGGCTCCACTTGTAGTTTCTGATAGAACCACAGACCCCTTGG 12713
QY 1084 ACTCCCTGATAAAGTCAATTAAGTTTGTATGATTTCCCATAGAAATATGAATCTCAAAGGA 1143
Db 12714 ACTCCCGAGTAACATTAAGTTGATGTTTATGATACCTCTATAGAAATATGAATCTCAAAGGA 12773
QY 1144 GGTAAAG-CAAGGGGCTGTGGCGATTCTT----- 1171
Db 12774 GGTAGTGTGTGTGTGTGATCTTTTGCCAACTTCCAAAGTGGAGAGCCCTCTTCC 12833
QY 1172 -----TGCTACTGGCTGCAGCTGCAGCCCCCAGCTCTTCT 1205
Db 12834 AACTGCAGGCAGACAGAGTGGCCCTGCTACTGGCTGCAGCTCCAGCCCTGCTCTTCT 12893
QY 1206 TCAGGCACATAAATTTACAGAGCTTGACTAA-GACTGCTGTGCAGGGCAGGGATGCT 1264
Db 12894 TCTAGCATATAAACAATCCACAGCCCTCACTGAATCACTGCTGTGCAGGGCAGGAAAGCT 12953
QY 1265 CCAGGCAGACAGCCAGCAACACAGCACAGCACTGAAAGTAAGTCACTGAGAGACAG 1324
Db 12954 CCATGCACATAGCCCAAGAGACACACAGAGCTGAAAGGAAGTCACTGAGAGGAGAG 13013
QY 1325 TTGAAGAAGGCAAGTGGCGATG 1346
Db 13014 ATAAGTAAGGAAGTAGTGATG 13035
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## RESULT 8

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US-10-146-575-3
; Sequence 3, Application US/10146575
; Publication No. US20030059800A1
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/10/146,575
; CURRENT FILING DATE: 2002-05-14
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
US-10-146-575-3
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Query Match 32.6%; Score 438.8; DB 5; Length 1345;
Best Local Similarity 76.5%; Pred. No. 2.3e-129;
Matches 646; Conservative 1; Mismatches 123; Indels 74; Gaps 6;
QY 562 GGATGACACACAGGGGCCAGCAATCTCACCAGTCAACTCCACCAACATTTCTGGTCA 621
||||| ||| ||||||||||||| ||||||||||||| |||||||
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Db 382 GGATGATAGCAGAGGCCAGCAATCTCAGCTAAGTCAACTCCACAGGCTTTCTAGTTG 441
QY 622 CCACCATGTGTACAGTACCTCTGCTAGGGTCCAGGGTCTATGAAGTAAATAATACACAGAC 681
Db 442 CCACATGTGTGTACAGCACCTCTGGTAGGACCCAGAGCCATGACAGGGAATAGACTAGAC 501
QY 682 TGTGCCCTTGAAGAACTCACCTCTGCTAAAGGGAAAACAGGCACAGAAACCCACAAGGGTGG 741
Db 502 TATGCCCTTGAAGAGCTCACCTCTGTTCAAGGGAAAACAGGCGTGGAAA--CACAAATGGTGG 559
QY 742 TAGAGGAAATAGAGCAATAGCACTGTGTAGGGGGATAGGAGGCACCCAGAGAGGAGAA 801
Db 560 TAAAGAGGAAAGAGCAATAGGATTGCAATAGAGGGGATGGAAGATGCCCGGGGAGAA 619
QY 802 ATGGTTACATCTGTGTGAGGAGTTTGGTAAAGAAAGACTTTAATAGAGGGGTCTGTCTG 861
Db 620 ATGGTTACATCTGTGTGAGGAGTTTGGTGAAGAAAGACTCTAAGAAA--GGCTCTGTCTG 678
QY 862 GCTGGGCTTGCAGAGATGTGTAGGAGTCACTCTAGGGGGCAAAAGTACACTCCAGGGCAGAG 921
Db 679 TCTGGGCTTGAAGAGATGTGTAGGAGTCTTCTAGGGGGCAGAGGCACACTCCAG----- 732
QY 922 GGAATTTGCATGGTAAAGATCTGCAGTTGTGGCTTGTGGGATGAATTTCAAGTATTTTG 981
Db 733 -----GCATAGGTAAAGATCTGTAGGTGTGGCTTGTGGGATGAATTTCAAGTATTTTG 786
QY 982 GAATGAAGACAGCCATGGAAAACAAGGCAGGTGAGAGGATATTTAAGAGGCTTTCATGCCA 1041
Db 787 GAATGAGGACAGCCATAGAGACAAAGGCAGAGAGAGGCGATTTAATAGATTTTATGCCA 846
QY 1042 ATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGACTCCCTGATATAAACTGA 1101
Db 847 ATGGCTCCACTTGAGTTTCTGATAAGAAACCCAGAACCTTTGGACTCCCAAGTAACATTGA 906
QY 1102 TTAAGTTGTTTATGATTTCCCATAGATATGAATCACTCAAAGAGAGTAAAG-CAAAAGGGTGT 1160
Db 907 TTGAGTTGTTTATGATATACCTCATAGAAATATGAATCACTCAAAGAGGTCAGTGAGTGTGT 966
QY 1161 GTGCGATTCTT----- 1171
Db 967 GTGTGATTTCTTGCCAACTTCCAGGTGGAGAGCCCTTCCAACTGCAGGCAGAGACACA 1026
QY 1172 -----TGCTACTGGCTGCAGCTGCAGCCCCCAGCTCTTCTTCCAGCACATAAACTTT 1223
Db 1027 GTTGGCCCTGTACTGGCTGCAGCTCCAGCCCTGCTCTCTAGCATATAAACAATC 1086
QY 1224 CAGCAGCTTGACCTAA-GACTGCTGTGCAGGGCAGGAGTGTCTCCAGGCAGACAGCCAGC 1282
Db 1087 CAACAGCCTCACTGAATCACTGCTGTGCAGGGCAGGAAAGTCTCCATGCACATAGCCAGC 1146
QY 1283 AAACAACAGCACACAGCTCAAAAGTAAGACTCAGAGGAGACAGTTTGAAGAGGCAAGTGGC 1342
Db 1147 AAAGACCAACACAGAGCTGAAAGGAAGACTCAGAGGAGAGAGATAAGTAAGGAAGTAGT 1206
QY 1343 GATG 1346
Db 1207 GATG 1210
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## RESULT 9

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US-10-085-612-3
; Sequence 3, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Vredenburg, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; TITLE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1
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Db 12247 CACCAGCCTTCTAGTTGCCACTGTGTACAGCACCCCTGGTAGGCACAGAGCCATGA 12306
Qy 664 AAGTAATAATACAGACTGTGCCCTTGGAGAACTCACCTCTGTGAAGGAAACAGGCAC 723
Db 12307 CAGGGAATAAGACTAGACTATATGCTTGGAGAGCTCACCTCTGTTCAGGGAAACAGGCGT 12366
Qy 724 AGAAACCCACAAGGGTGTAGAGAGGAAATAGGACAATAGGACTGTGTGAGGGGGATAGG 783
Db 12367 GGAAC--CACAACTGGTGAAGAGGAAAGAGGACAATAGGATTGCATGAAGGGATGGA 12424
Qy 784 AGGCACCCAGAGGAGGAAATGGTTACATCTGTGTGAGGAGGTTGGTAAGGAAAGACTTTA 843
Db 12425 AGGTGCCCAGGGAGGAAATGGTTACATCTGTGTGAGGAGTTGGTAGGAGTCTTCTAGGGGGCACA 12484
Qy 844 ATAGAAGGGGTCTCTGTGGCTGGGCTTGCAGAGGATGTGAGGAGTCACTAGGGGGCACA 903
Db 12485 AGAGAA--GGCTCTCTGTGTCTGGGTTTGGAGGAGTGTGAGGAGTCTTCTAGGGGGCACA 12543
Qy 904 AGTACACTCCAGGCAGAGGGAATTCATGGGTAAAGATCTGCAGTGTGGCTTGTGGGGA 963
Db 12544 GGCACACTCCAG-----GCATAGGTAAGATCTGTAGGTGTGGCTTGTGGGA 12591
Qy 964 TGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAACAAAGGGCAGGTGAGAGGATAT 1023
Db 12592 TGAATTTCAAGTATTTTGGAAATGAGGACAGCCATAGAGACAAGGGCAAGAGAGGCGAT 12651
Qy 1024 TTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAGAAGTCACTAGGTTCCGTTG 1083
Db 12652 TTAATAGATTTTATGCCAATGGCTCCACTTCAGTTTCTGATAGAAGTCACTAGGTTCCGTTG 12711
Qy 1084 ACTCCCTGATAAACTGATTAAAGTTGTTATGATTTCCCATAGAAATGAACCTCAAAGGA 1143
Db 12712 ACTCCCAAGTAACTGATTGATGAGTTGTTATGATACCTCATAGAAATGAACCTCAAAGGA 12771
Qy 1144 GGTAAAG--CAAAGGGGTGTGTCGATTCTT----- 1171
Db 12772 GGTCAAGTGTGTGTGTGTGTGATTTCTTTCGCCAACTTCCAAGGTGGAGAGCCCTCTTCC 12831
Qy 1172 -----TGCTACTGGCTGCAGCTGCAGCCCACTCTTCC 1205
Db 12832 AACTGCAGGCAGACACAGGTGGCCCTGCTACTGGCTGCAGCTGCAGCCCTCTTCC 12891
Qy 1206 TCCAGCACAATAAATTTACAGAGCTTGACCTAA--GACTGTGTGAGGGGAGGAGTGTCT 1264
Db 12892 TCTAGCATATTAACAATCCACAGCCTCACTGAATCACTGCTGTGAGGGCAGGAAAGCT 12951
Qy 1265 CCAGGCAGACAGCCCAAGCAAAACAGCACA 1295
Db 12952 CCATGCACATAGCCAGCAAGAGCAACACA 12982
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RESULT 13

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US-09-957-997-1
; Sequence 1, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 11186
; TYPE: DNA
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; ORGANISM: Homo sapiens
US-09-957-997-1
Query Match 29.3%; Score 394.8; DB 3; Length 11186;
Best Local Similarity 76.0%; Pred. No. 1.1e-114;
Matches 614; Conservative 0; Mismatches 112; Indels 82; Gaps 7;
Qy 544 TCACCACAGACTCAGAGGGGATGACACACAGAGGGGCCAGCAATCTCACCCAAAGTCAACTC 603
Db 10403 TCACCAGAAAGTCAGAGGAAGTGACACACAGAGGGGCCAGCAATCTCAGCCAAAGTCAACTC 10462
Qy 604 CACCAACATTTCTGGTCACCCACCATGTGTACAGTACCTCTGCTAGGGTCCAGGGTCAATGA 663
Db 10463 CACCAGCCTTTCTGGTC-CCCACTGTGTGTACAGCACCCCTGTAGGGACCCAGAGCCATGA 10521
Qy 664 AAGTAATAATACAGACTGTGCCCTTGGAGAACTCACCTCTCTAAGGAAACAGGCAC 723
Db 10522 GAGTGAAGTAAAGACAGACTATGCCCTTGGAGAGCTCACCTCTCTAAGGAAACAGGCCT 10581
Qy 724 AGAAACCCACAAGGGTGTAGAGAGGAAATAGGACAATAGGACTGTGTGAGGGGGATAGG 783
Db 10582 GGAACACACATATGGTGTAAAGAGGAAAGACAATAGAACTGCATGAAGGGATGGA 10641
Qy 784 AGGCACCCAGAGGAGGAAATGGTTACATCTGTGTGAGAGGTTGGTTAAGGAAAGACTTTA 843
Db 10642 AAGTGCCCAAGGGAGGAAATGGTTACTTCTGTGTGAGGGGGTGGTGAGGAAAGACTCTA 10701
Qy 844 ATAGAAGGGTCTGTCTGGCTGGCTTGCAGAGGATGTGTAGGAGTCACTTAGGGGGCACA 903
Db 10702 AGAGAA--GGCTCTGTGTGGCTGGGTATGAAAGATGTGTAGGAGTCTTCTAGGGGGCACA 10760
Qy 904 AGTACACTCCAGGCAGAGGGGAATTCATGGGTAAAGATCTGCAGTTGTGTGGGGGA 963
Db 10761 GGCACACTCCAG-----GCATAGGTAAGATCTGTAGGATGCTGTGGTGGGA 10808
Qy 964 TGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAACAAAGGGCAGGTGAGAGGATAT 1023
Db 10809 TGAGTTTCAAGTATTTCTGGAATGAGGACAGCCATAGAGACA-----AGAGGAGAG 10858
Qy 1024 TTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAGAAGTCAAGTTCCTGG 1083
Db 10859 TTAATAGATTTATGCCAAATGGCTCCACTTGAATTTGTGATAGAACCACAGAACCCCTTG 10918
Qy 1084 ACTCCCTGATAAACTGATTAAAGTTGTTATGATTTCCCAATAGAAATAGAACTCAAAGGA 1143
Db 10919 ACTCCCAAGTAACTGATTGATTTGATGATTTCTACATAGAAATTAACCTCAATGGA 10978
Qy 1144 GGTAAAG--CAAAGGGGTGTGCGATTCTT----- 1171
Db 10979 GGTCAAGTGTGTGTGTGTGATTATTTGCCAACTGCCGAGGTGGAGAGCCCTCTTCC 11038
Qy 1172 -----TGCTACTGGCTGCAGCTGCAGCCCACTCTTCC 1206
Db 11039 GACTGCAGGCAGACAGCGGGGCCCTGCTACTGGCTGCAGCTGCAGCCCTGCTCTTCT 11098
Qy 1207 CCAGCACAATAAATTTACAGAGCTTGACCTAA--GACTGTGTGAGGGCAGGAGTGTCT 1265
Db 11099 CCAGCATATTAACAATCCACAGCCTCACTGAATCACTGCTGTGAGGGCAGGAAAGCTC 11158
Qy 1266 CAGGCAGACAGCCCAAGCAAAACAGCA 1293
Db 11159 CACACACAGACCCCAAGCAACAGCAGCA 11186
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RESULT 14

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US-10-415-607-4
; Sequence 4, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
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; FILE REFERENCE: A-72251/RPT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01/01407
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-4

Query Match      29.3%; Score 394.8; DB 9; Length 11186;
Best Local Similarity 76.0%; Pred. No. 1.1e-114;
Matches 614; Conservative 0; Mismatches 112; Indels 82; Gaps 7;

QY 544 TCACCAAGAGTCTGAGGGGATGACACACAGGGGCCAGCAATCTCAGCAAGTCAACTC 603
DB 10403 TCACCAAGAGTCTGAGGGGATGACACACAGGGGCCAGCAATCTCAGCAAGTCAACTC 10462

QY 604 CACCAACATTTCTGGTCACCCACCATGTTACAGTACCCCTGTAGGTCAGGGTCAATGA 663
DB 10463 CACCAAGCTTTCTGGTC-CCCATGTTGTACAGCACCCCTGTAGGTCAGGGTCAATGA 10521

QY 664 AAGTAAATATACAGACTGTGCCCTTGAGGAATCACCCTCTGCTAAGGGAACAGGCAC 723
DB 10522 GAGTGAGTAAAGACCAACTATGCCCTTGAGGAGTCACTCTGCTAAGGGAACAGGCCT 10581

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DB 10582 GGAACACACAATTTGGTGTAAAGAGGAAAGAACAAATAGAACTGATGAAGGGGATGA 10641

QY 784 AGGCACCCAGAGGAGAAATGGTTACATCTGTGTAGGAGGTTGTGAAGAAAGACTTTA 843
DB 10642 AAGTGCCCGAGGAGAAATGGTTACTTCTGTGTAGGAGGTTGTGTAGAAAGACTCTA 10701

QY 844 ATAGAAGGGTCTGTCTGGCTGGGCTTGCAAGGATGTAGGAGTCACTCTAGGGGGCACA 903
DB 10702 AGAGAA-GGCTCTGTCTGGCTGGGTATGAAGGATGTGTAGGAGTCTTCTAGGGGGCACA 10760

QY 904 AGTACACTCCAGGACAGGGAATTCATGGGTAAAGATCTGCAAGTGTGTGGCTTGTGGGA 963
DB 10761 GGCACACTCCAG-----GCATAGTAAAGATCTGTAGGCAATGGCTTGTGGGA 10808

QY 964 TGGATTTCAAGTATCTCGAATCAAGACAGCCATGGAACAAGGGCAGGTGAGAGGATAT 1023
DB 10809 TGAGTTTCAAGTATCTCGAATGAGACAGCCATAGAGACA-----AGAGGAGAG 10858

QY 1024 TTAAGAGGCTTCAATGCCAATGGCTCCAATTTCAGTTTCTGATAAGAACTCAGGTTCCGTGG 1083
DB 10859 TTAATAGATTTTATGCCAATGGCTCCACTTGTAGTTGTGATAAGAACCCAGAACCTTGG 10918

QY 1084 ACTCCCTGATAAACTGATTAAGTTGTTATGATTTCCCATAGAAATAGAACTCAAAAGGA 1143
DB 10919 ACTCCCCAGTAACTGATTAAGTTGTTATGATTTCTACATAGAAATTAACCTCAATGGA 10978

QY 1144 GGTAAAG-CAAAGGGGTGTGCGCAATCTTT----- 1171
DB 10979 GGTCAAGTGTGTGTGTGTATTTTGCCAACTGCCGAGGTGGAGAGCCTCTTCC 11038

QY 1172 -----TGCTACTGGCTGCAGCTGCAGCCCCACCTCTCTTCT 1206
DB 11039 GACTGCAGGACAGCAGCGGGGCCCTGCTACTGGCTGCAGCTCCAGCCCTCTCTTCT 11098

QY 1207 CCAGCACATAAACTTTACAGACTGTGAACCTAA-GACTGTGTGACGGGAGGATGCTC 1265
DB 11099 CCAGCATATAAACTCAACAGCCTCACTGAATCACTGTGTGACAGGGCAGGAAAGCTC 11158

QY 1266 CAGGCAGACAGCCAGCAACACAGCA 1293
DB 11159 CACACACAGACCCAGCAACACAGCA 11186
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RESULT 15
US-09-957-997-4
; Sequence 4, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-957-997-4

Query Match      28.8%; Score 387.2; DB 3; Length 1012;
Best Local Similarity 79.3%; Pred. No. 7.6e-113;
Matches 530; Conservative 0; Mismatches 113; Indels 25; Gaps 5;

QY 544 TCACCAAGTCTGAGGGGATGACACACAGGGGCCAGCAATCTCAGCAAGTCAACTC 603
DB 286 TCACCAAGTCTGAGGGGATGACACACAGGGGCCAGCAATCTCAGCAAGTCAACTC 345

QY 604 CACCAACATTTCTGGTCACCCACCATGTTACAGTACCCCTGTAGGTCAGGGTCAATGA 663
DB 346 CACCAAGCTTTCTGGTC-CCCATGTTGTACAGCACCCCTGTAGGGAACAGGCCATGA 404

QY 664 AAGTAAATATACAGACTGTGCCCTTGAGGAATCACCCTCTGCTAAGGGAACAGGCAC 723
DB 405 GAGTGAGTAAAGACCAACTATGCCCTTGAGGAGTCACTCTGCTAAGGGAACAGGCCT 464

QY 724 AGAAACCCACAGGGTGTAGAGGAAATAGGAACTAGGACTGTGTGAGGGGATAGG 783
DB 465 GGAACACACAATTTGGTGTAAAGAGGAAAGAACAAATAGAACTGATGAAGGGGATGA 524

QY 784 AGGCACCCAGAGGAGAAATGGTTACATCTGTGTAGGAGGTTGTGAAGAAAGACTTTA 843
DB 525 AAGTGCCCGAGGAGGAAATGGTTACTTCTGTGTAGGGGGTGTGTGAGAAAGACTCTA 584

QY 844 ATAGAAGGGTCTGTCTGGCTGGGCTTGCAAGGATGTAGGAGTCACTCTAGGGGGCACA 903
DB 585 AGAGAA-GGCTCTGTCTGGCTGGGTATGAAGGATGTGTAGGAGTCTTCTAGGGGGCACA 643

QY 904 AGTACACTCCAGGACAGGGAATTTGCATGGGTAAAGATCTGCAAGTGTGTGGCTTGTGGGA 963
DB 644 GGCACACTCCAGGCATA-----GGTAAAGATCTGTAGGCAATGGCTTGTGGGA 691

QY 964 TGGATTTCAAGTATTTCTGGAATCAAGACAGCCATGGAACAAGGGCAGGTGAGAGGATAT 1023
DB 692 TGAGTTTCAAGTATTTCTGGAATGAGGACAGCCATAGAGACA-----AGAGGAGAG 741

QY 1024 TTAAGAGGCTTCAATGCCAATGGCTCCACTTTCAGTTTCTGATAAGAACTCAGGTTCCGTGG 1083
DB 742 TTAATAGATTTTATGCCAATGGCTCCACTTGTAGTTGTGATAAGAACCCAGAACCTTGG 801

QY 1084 ACTCCCTGATAAACTGATTAAGTTGTTATGATTTCCCATAGAAATAGAACTCAAAAGGA 1143
DB 802 ACTCCCCAGTAACTGATTAAGTTGTTATGATTTCTACATAGAAATTAACCTCAATGGA 861

QY 1144 GGTAAAG-CAAAGGGGTGTGCGCAATCTTTGCTACTGGCTGCAGCTGCAGCCCCACCTCC 1202
DB 862 GGTCAAGTGTGTGTGTGTATTTTGCCAACTGCCGAGGTGGAGAGCCTCTTCC 921
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Qy 1203 TTCTCCAG 1210  
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Db 922 GACTGCAG 929

Search completed: January 10, 2006, 23:01:08  
Job time : 1259 secs



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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:14:54 ; Search time 293 Seconds  
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Perfect score: 1346  
Sequence: 1 ggaagcaactacatgtcca.....gaagaaggcaagtgcgatg 1346

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA\_New.\*

- 1: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq.\*
- 2: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*
- 5: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*
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- 7: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq2.\*
- 9: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq3.\*
- 10: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	150.8	11.2	196200	7	US-11-121-086-9
2	150.8	11.2	199321	7	US-11-121-086-10
3	149.2	11.1	138821	7	US-11-121-086-80
4	148.2	11.0	198285	6	US-10-775-169-338
5	148	11.0	150437	7	US-11-112-908-44
6	148	10.9	182314	7	US-11-112-908-45
7	146.4	10.9	152335	7	US-11-121-086-73
8	146	10.8	156250	7	US-11-121-086-86
9	140.8	10.5	171732	7	US-11-121-086-98
10	138.4	10.3	156544	7	US-11-121-086-81
11	138.2	10.3	1080000	6	US-10-928-446A-1
12	138.2	10.3	1080000	6	US-10-928-446A-181
13	138.2	10.3	1080000	6	US-10-928-446A-183
14	138.2	10.3	1080000	6	US-10-928-446A-185
15	138.2	10.3	1080000	6	US-10-928-446A-187
16	138.2	10.3	1080000	6	US-10-928-446A-189
17	138.2	10.3	1080000	6	US-10-928-446A-191
18	138.2	10.3	1080000	6	US-10-928-446A-193
19	138.2	10.3	1080000	6	US-10-928-446A-195
20	138.2	10.3	1080000	6	US-10-928-446A-197
21	138.2	10.3	1080000	6	US-10-928-446A-199
22	138.2	10.3	1080000	6	US-10-928-446A-201
23	136.4	10.1	175100	7	US-11-121-086-21

C 24	133.2	9.9	415117	6	US-10-995-561-13274	Sequence 13274, A
C 25	133.2	9.9	1691140	7	US-11-091-018-1	Sequence 1, Appl
C 26	132.8	9.9	645179	6	US-10-995-561-13293	Sequence 13293, A
27	129.2	9.6	180574	7	US-11-121-086-70	Sequence 70, Appl
28	129.2	9.6	340000	7	US-11-102-978-3	Sequence 3, Appl
C 29	128.2	9.5	96539	6	US-10-995-561-13289	Sequence 13289, A
30	127.2	9.5	182303	7	US-11-121-086-45	Sequence 45, Appl
31	125.4	9.3	150450	7	US-11-112-908-54	Sequence 54, Appl
32	125.4	9.3	191343	7	US-11-112-908-53	Sequence 53, Appl
33	124.4	9.2	170995	7	US-11-121-086-35	Sequence 35, Appl
34	121.2	9.0	199130	6	US-10-995-561-13233	Sequence 13233, A
35	120.4	8.9	201	6	US-10-995-561-13235	Sequence 35275, A
36	120.4	8.9	415117	6	US-10-995-561-13274	Sequence 13274, A
37	119.6	8.9	48203	6	US-10-995-561-13278	Sequence 13278, A
C 38	119.6	8.9	151870	6	US-10-995-561-13199	Sequence 13199, A
C 39	119	8.8	305312	6	US-10-995-561-13236	Sequence 13236, A
C 40	117.8	8.8	1691140	7	US-11-091-018-1	Sequence 1, Appl
C 41	116.6	8.7	180862	7	US-11-112-908-40	Sequence 40, Appl
42	115.8	8.6	61718	6	US-10-995-561-13226	Sequence 13226, A
43	111.6	8.3	201	6	US-10-995-561-24966	Sequence 24966, A
C 44	111.6	8.3	169047	7	US-11-121-086-15	Sequence 15, Appl
C 45	111.6	8.3	178877	7	US-11-121-086-17	Sequence 17, Appl

#### ALIGNMENTS

##### RESULT 1

US-11-121-086-9  
; Sequence 9, Application US/11121086  
; Publication No. US20050266459A1  
; GENERAL INFORMATION:  
; APPLICANT: POULSEN, TIM S.  
; APPLICANT: NIELSEN, KIRSTEN V.  
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES  
; FILE REFERENCE: 09138.6000-00000  
; CURRENT APPLICATION NUMBER: US/11/121,086  
; PRIOR FILING DATE: 2005-05-04  
; PRIOR APPLICATION NUMBER: 60/567,570  
; PRIOR FILING DATE: 2004-05-04  
; NUMBER OF SEQ ID NOS: 107  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 9  
; LENGTH: 196200  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-121-086-9

Query Match 11.2%; Score 150.8; DB 7; Length 196200;  
Best Local Similarity 81.3%; Pred. No. 7.9e-38;  
Matches 187; Conservative 0; Mismatches 42; Indels 1; Gaps 1;

QY	1	GGAGCAACCTACATGCTCCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA	60
DB	21225	GGAGCAACCTAAGTGTCCATGATGAATGAATAAGAAATGTGTGATCATATCCA	21284
QY	61	CAATGAGTACAAATTCAGCCATCAAAAAGCATGAGATCCTGTCTTTTATAAAGCTGG	120
DB	21285	CAATGAGTACTATTTCAGCCAT-AAAAGGAATGAGATCTGCAATTCGAAGACATGG	21343
QY	121	CTGGAACTCGAGTCAATATGTTAGTAAATAAGCAGCAGCAGCAAGACAGACATTCG	180
DB	21344	ATGGAACCTGGAGTCAATATTAATAGTGAATAAGCAGCAGCAGCAAGACAACTTCAT	21403
QY	181	ATGTTCTCACTTATTTGTGGATCTACAAATCAAAACAAATTTGAGCTAATG	230
DB	21404	ATGTTCTCACTTATTTGTGGAGCTTTAAATTAATAAACAATTTGAATCATG	21453

##### RESULT 2

US-11-121-086-10  
; Sequence 10, Application US/11121086  
; Publication No. US20050266459A1

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; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 199321
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-10

Query Match      11.2%; Score 150.8; DB 7; Length 199321;
Best Local Similarity 81.3%; Pred. No. 8e-38;
Matches 187; Conservative 0; Mismatches 42; Indels 1; Gaps 1;

Qy 1 GGAAGCAACCTACATGTCCTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACCTATGCA 60
Db 144660 GGAAGCAACCTAAAGTGTCCATGACTGATGAATGGATAAAGAAATGTGGTACATATCCA 144719

Qy 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGTCTTTTATAATAAAGCTGG 120
Db 144720 CAATGGAGTACTATTAGCCAT-AAAAAGGAATGAGATCTGCGCAATTTGCAAGACATGG 144778

Qy 121 CTGGAATCGAGGTCAATATGTTAGGTAAATAAGCCAGGCACACAAAGACAGACATTCG 180
Db 144779 ATGGAATCGAGGTCAATATATTAAGTGAATAAGCCAGGCAGAGAAAGACAACTTCAT 144838

Qy 181 ATGTTCTCACTATTGTTGGGACTACAAATCAAAATGAGCTAATG 230
Db 144839 ATGTTCTCACTATTGTTGGGAGCTTAAATAATTAACAAATGGAACACTCATG 144888

RESULT 3
US-11-121-086-80
; Sequence 80, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 80
; LENGTH: 138821
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-80

Query Match      11.1%; Score 149.2; DB 7; Length 138821;
Best Local Similarity 80.9%; Pred. No. 2.1e-37;
Matches 186; Conservative 0; Mismatches 43; Indels 1; Gaps 1;

Qy 1 GGAAGCAACCTACATGTCCTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACCTATGCA 60
Db 104035 GGAAGCAATCTAAGTGTCCATCAATACATGAATGAATAAATAAATGTGGTACATATACA 104094

Qy 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGTCTTTTATAATAAAGCTGG 120
Db 104095 CAATGGAGTATTATTCAGCCAT-AAAAACAATGAGATCCTGTCTTTTATTCGAGACATAG 104153

Qy 121 CTGGAATCGAGGTCAATATGTTAGTAAATAAGCCAGGCACACAAAGACAGACATTCG 180
Db 144839 ATGTTCTCACTATTGTTGGGAGCTTAAATAATTAACAAATGGAACACTCATG 144888

; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 80
; LENGTH: 138821
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-80

Query Match      11.1%; Score 148.2; DB 6; Length 198285;
Best Local Similarity 80.8%; Pred. No. 5.8e-37;
Matches 185; Conservative 0; Mismatches 43; Indels 1; Gaps 1;

Qy 2 GAAGCAACCTACATGTCCTCAACAGATGAATGGGTAAAGAGAGTACTTCACCTATTCAC 61
Db 28236 GGAGCAACCTAAAGTGTCTATCGACAGATGAATGGATAAAGAAATGTGGTACATACATAC 28177

Qy 62 AATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGTCTTTTATAATAAAGCTGGC 121
Db 28176 AATGGAGTACTATTAGCTA-GAAAAAGATGATATCCAGTTATTGCAACACATAGA 28118

Qy 122 TGAACCTGCAGGTCAATATGTTAGGTAAATAAGCCAGGCACACAAAGACAGACATTCGA 181
Db 28117 TGAACCTGCAGGTCAATATGTTAAGTGAATAAGCCAGGTACAGAAAGACAAACATGACA 28058

Qy 182 TGTTCTCACTATTGTTGGGATCTACAAATCAAAATGAGCTAATG 230
Db 28057 TGTTCTCACTATTGTTGGGATCTAATAAATCAAAACAAATGAACTAATG 28009

RESULT 5
US-11-112-908-44
; Sequence 44, Application US/11112908
; Publication No. US20050260659A1
; GENERAL INFORMATION:
; APPLICANT: HARRIS, COLE
; APPLICANT: DAVIS, LISA M.
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112,908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 44
; LENGTH: 150437

```

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; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-44

Query Match      11.0%; Score 148; DB 7; Length 150437;
Best Local Similarity 83.5%; Pred. No. 5.6e-37;
Matches 192; Conservative 0; Mismatches 35; Indels 3; Gaps 2;

QY 1 GGAAGCAACCTACATGTTCATCAACAGATGAATGGGTAAGAGAGTACTTCACTTATGCA 60
Db 4827 GGAAGCAACCTAAGAGTCCAT-AACAGATGAATGGATAAGGAAATGTGGTACTTAGACA 4885

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTTTTATATAACGTGG 120
Db 4886 CAGTGGAGTACCATTACGCCAT--AAAAAGATGAGATCCTGTCAATTTACAACAACATGG 4943

QY 121 CTGGAACTCGAGTCATATTAGTAAATAAGCCAGGCACACAAAAGACAGACATTGC 180
Db 4944 ATGGAACTGGAGATCATATTATGTTAGTGAATAAGCCAGGCACAGAAAGACAAACATCNC 5003

QY 181 ATGTTCTCACTTATTGTTGGGATCTACAAATCAAAACAAATTTGAGCTAATG 230
Db 5004 TTGTTCTCACTTATTGTTGGGATCTAAAAATCAAAACAGTTGAACCTCATG 5053

RESULT 6
US-11-112-908-45
; Sequence 45, Application US/11112908
; Publication No. US20050260659A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Cole
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112,908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45
; LENGTH: 182314
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-45

Query Match      11.0%; Score 148; DB 7; Length 182314;
Best Local Similarity 83.5%; Pred. No. 6.4e-37;
Matches 192; Conservative 0; Mismatches 35; Indels 3; Gaps 2;

QY 1 GGAAGCAACCTACATGTTCATCAACAGATGAATGGGTAAGAGAGTACTTCACTTATGCA 60
Db 67467 GGAAGCAACCTAAGAGTCCAT-AACAGATGAATGGATAAGGAAATGTGGTACTTAGACA 67525

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTTTTATATAACGTGG 120
Db 67526 CAGTGGAGTACCATTACGCCAT--AAAAAGATGAGATCCTGTCAATTTACAACAACATGG 67583

QY 121 CTGGAACTCGAGTCATATTAGTAAATAAGCCAGGCACACAAAAGACAGACATTGC 180
Db 67584 ATGGAACCTGGAGATCATATTATGTTAAGTGAATAAGCCAGGCACAGAAAGACAAACATCAC 67643

QY 181 ATGTTCTCACTTATTGTTGGATCTACAAATCAAAACAAATTTGAGCTAATG 230
Db 67644 TTGTTCTCACTTATTGTTGGATCTAAAAATCAAAACAGTTGAACCTCATG 67693

; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-73
; Sequence 73, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73
; LENGTH: 152335
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-73

Query Match      10.9%; Score 146.4; DB 7; Length 152335;
Best Local Similarity 80.4%; Pred. No. 1.9e-36;
Matches 185; Conservative 0; Mismatches 41; Indels 4; Gaps 1;

QY 1 GGAAGCAACCTACATGTTCATCAACAGATGAATGGTAAAGAGAGTACTTCACTTATGCA 60
Db 52878 GGAAGCAATCTGTATGTCCATCAGCAGAAAGAAATGGATAAGAAAAATGTGGTACATACACA 52937

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTTTTATATAACGTGG 120
Db 52938 CAATGGAGTACTATTTCAGCCATAAAAA---ATGAGATCCTGTCAATTTGCAACAACATGG 52993

QY 121 CTGGAACCTGCAGTCACTTATGTTAGCTAAAAATAAGCCAGGCACACAAAAGACAGACATTGC 180
Db 52994 ATGGAACTGGGATCATATTATGTTAGTAAATAAGCCAGGCACAGAAAGGCAATACCGT 53053

QY 181 ATGTTCTCACTTATTGTTGGGATCTACAAATCAAAACAAATTTGAGCTAATG 230
Db 53054 ATGTTCTCACTTATTGTTGTGATCTAAAAATCAAAACAAATTAATTAATTAACGTGG 53103

RESULT 8
US-11-121-086-86
; Sequence 86, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 86
; LENGTH: 156250
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-86

Query Match      10.8%; Score 146; DB 7; Length 156250;
Best Local Similarity 80.0%; Pred. No. 2.6e-36;
Matches 184; Conservative 0; Mismatches 45; Indels 1; Gaps 1;

QY 1 GGAAGCAACCTACATGTTCATCAACAGATGAATGGGTAAGAGAGTACTTCACTTATGCA 60
Db 109295 GGAAGCAACCTAAGTATCCATCAACAGATGAATGGATAAGAAAAATGTGATACATATA 109354

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGCATGAGATCCTGCTTTTATATAACGTGG 120
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Db 109355 CAATGGAGTACTATTGAGCCAT-AGAAAACAATGAGATCTTGTCATTTGCAACAACATGG 109413
QY 121 CTGGAACCTGAGGTCAATTATGTTAGGTAAATAAAGCCAGGCACACAAAGACAGACATTGC 180
Db 109414 ATGGAACCTGAGGTCAATTATGTTAGGGAATAAAGCCAGGCACAGAAAGACAACCTTGA 109473
QY 181 ATGTTCTCACTTAATTTGTGGATCTTACAAATCAAAAACAATTGAGCTAATG 230
Db 109474 ATGTTCTCACTTAATTTGTGGATCTTAAATAAGTAAACAATTGAATTCATG 109523

RESULT 9
US-11-121-086-98/c
; Sequence 98, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 98
; LENGTH: 171732
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-98

Query Match 10.58; Score 140.8; DB 7; Length 171732;
Best Local Similarity 78.78; Pred. No. 1:5e-34; Indels 2; Gaps 1;
Matches 181; Conservative 0; Mismatches 47;

QY 1 GGAAGCAACCTACATGTCCTCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTAATGCA 60
Db 35486 GGAAGCAACCTAATGTTTCATCAATATCACTGGATAAAGAAAATATGATACATATGTA 35427

QY 61 CAATGGAGTCAATTCAGCCATGAAAAGACATGAGATCCTGTCCTTTATAATAACGTGG 120
Db 35426 CAATGGAGTCAATTCAGCCATG--AAAAGAATGAGATTCCTGTCATTTGTAACAACATGT 35369

QY 121 CTGGAACCTGAGGTCAATTATGTTAGGTAAATAAAGCCAGGCACACAAAGACAGACATTGC 180
Db 35368 GTGGAACCTGGGGTCAATTATCTTAAGTGAATAAAGTCAGACACAGAAAGACAACCTTAC 35309

QY 181 ATGTTCTCACTTAATTTGTGGATCTTACAAATCAAAAACAATTGAGCTAATG 230
Db 35308 ATGTTCTCACTTAATTTGTGGTGTGTAATAATCAGTACAATTGAACTTTGTG 35259

RESULT 10
US-11-121-086-81
; Sequence 81, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 81
; LENGTH: 156544
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-81
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Query Match 10.38; Score 138.4; DB 7; Length 156544;
Best Local Similarity 80.9%; Pred. No. 8.7e-34;
Matches 186; Conservative 0; Mismatches 41; Indels 3; Gaps 2;

QY 1 GGAAGCAACCTACATGTCCTCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTAATGCA 60
Db 3418 GGAAGCAACCTAAGTGTTCATCAACAGATGAATGGATAAAGAAAATGTGTACATATATG 3477

QY 61 CAATGGAGTACAAATTCAGCCATGAAAAAGACATGAGATCCTGTCCTTTATAATAACGTGG 120
Db 3478 CAAT--AGTACCAATTCAGCCAT-AAAAAGAATGAGATTCGTCAATTTGCAACTACGTGG 3534

QY 121 CTGGAACCTGAGGTCAATTATGTTAGGTAAATAAAGCCAGGCACACAAAGACAGACATTGC 180
Db 3535 ATGAAACTGGAGATCAATTATGCTAAGTAAAAATAAGCCAGGCACAGAAAGACAATAATCAC 3594

QY 181 ATGTTCTCACTTAATTTGTGGATCTTACAAATCAAAAACAATTGAGCTAATG 230
Db 3595 ATGTTCTCACTTAATTTGGGGGATCTAAAAATCAAAAACAATTGAAATCAGG 3644

RESULT 11
US-10-928-446A-1
; Sequence 1, Application US/10928446A
; Publication No. US20050277123A1
; GENERAL INFORMATION:
; APPLICANT: UNIVERSITY OF UTAH RESEARCH FOUNDATION
; TITLE OF INVENTION: VARIANTS OF NEDD4L ASSOCIATED WITH HYPERTENSION AND
; FILE REFERENCE: 0274-5785.1US
; CURRENT APPLICATION NUMBER: US/10/928,446A
; PRIOR FILING DATE: 2004-08-26
; PRIOR APPLICATION NUMBER: 60/359,741
; PRIOR FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1080000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825234)
; OTHER INFORMATION: the 'n' at position 825234 may be 'c' or 't'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825270)
; OTHER INFORMATION: the 'n' at position 825270 may be 'c' or 'g'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825401)
; OTHER INFORMATION: the 'n' at position 825401 may be 'c' or 'a'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825428)
; OTHER INFORMATION: the 'n' at position 825428 may be 'g' or 'a'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825473)
; OTHER INFORMATION: the 'n' at position 825473 may be 'g' or 'a'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825765)
; OTHER INFORMATION: a "c" may be deleted at this position
; FEATURE:
; NAME/KEY: allele
; LOCATION: (825828)
; OTHER INFORMATION: the 'n' at position 825828 may be 'c' or 't'
; FEATURE:
; NAME/KEY: allele
; LOCATION: (826041)
; OTHER INFORMATION: the 'n' at position 826041 may be 'a' or 'g'
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/	FEATURE:
/	NAME/KEY: allele
/	LOCATION: (826546)
/	OTHER INFORMATION: the 'n' at position 826546 may be 'a' or 'g'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (826654)
,,	OTHER INFORMATION: the 'n' at position 826654 may be 'a' or 'g'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (826826)
,,	OTHER INFORMATION: the 'n' at position 826826 may be 'a' or 'g'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (826863)
,,	OTHER INFORMATION: the 'n' at position 826863 may be 'a' or 'g'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (827008)
,,	OTHER INFORMATION: the 'n' at position 827008 may be 'a' or 'g'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (843055)
,,	OTHER INFORMATION: the 'n' at position 843055 may be 'g' or 'a'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (843118)
,,	OTHER INFORMATION: the 'n' at position 843118 may be 't' or 'c'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (871027)
,,	OTHER INFORMATION: the 'n' at position 871027 may be 'a' or 'g'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (871140)
,,	OTHER INFORMATION: the 'n' at position 871140 may be 'c' or 't'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (871168)
,,	OTHER INFORMATION: the 'n' at position 871168 may be 'c' or 'a'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (872678)
,,	OTHER INFORMATION: the 'n' at position 872678 may be 'c' or 't'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (872742)
,,	OTHER INFORMATION: the 'n' at position 872742 may be 'a' or 'g'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (925859)
,,	OTHER INFORMATION: the 'n' at position 925859 may be 'c' or 'g'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (993220)
,,	OTHER INFORMATION: the 'n' at position 993220 may be 'c' or 't'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (993254)
,,	OTHER INFORMATION: the 'n' at position 993254 may be 'g' or 'a'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (1006462)
,,	OTHER INFORMATION: the 'n' at position 1006462 may be 'c' or 't'
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (1007820) ..(1007823)
,,	OTHER INFORMATION: "ttct" may be deleted at this position
,	FEATURE:
,,	NAME/KEY: allele
,,	LOCATION: (1018038)
,,	OTHER INFORMATION: the 'n' at position 1018038 may be 'a' or 'g'
,	FEATURE:

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> NAME/KEY: allele
> LOCATION: (1018704)
> OTHER INFORMATION: the 'n' at position 1018704 may be 'c' or 't'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1018718) ..(1018720)
> OTHER INFORMATION: "ggt" may be deleted at this position
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1026786)
> OTHER INFORMATION: the 'n' at position 1026786 may be 'c' or 'a'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1047134)
> OTHER INFORMATION: the 'n' at position 1047134 may be 'a' or 'g'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1047159)
> OTHER INFORMATION: the 'n' at position 1047159 may be 'a' or 'g'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1047378)
> OTHER INFORMATION: the 'n' at position 1047378 may be 'c' or 't'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1047739)
> OTHER INFORMATION: the 'n' at position 1047739 may be 'a' or 'g'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1050133) ..(1050137)
> OTHER INFORMATION: "ttaaa" may be deleted at this position
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1050539)
> OTHER INFORMATION: the 'n' at position 1050539 may be 'c' or 't'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1062808)
> OTHER INFORMATION: the 'n' at position 1062808 may be 'c' or 'g'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1066392)
> OTHER INFORMATION: the 'n' at position 1066392 may be 'a' or 'g'
> FEATURE:
> NAME/KEY: allele
> LOCATION: (1073711)
> OTHER INFORMATION: the 'n' at position 1073711 may be 'c' or 't'
> US-10-928-446A-1

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/ Publication No. US2005027123A1
/ GENERAL INFORMATION:
/ APPLICANT: UNIVERSITY OF UTAH RESEARCH FOUNDATION
/ TITLE OF INVENTION: VARIANTS OF NEDD4L ASSOCIATED WITH HYPERTENSION AND
/ TITLE OF INVENTION: VIRAL BUDDING
/ FILE REFERENCE: 0274-5785.IUS
/ CURRENT APPLICATION NUMBER: US/10/928,446A
/ CURRENT FILING DATE: 2004-08-26
/ PRIOR APPLICATION NUMBER: 60/359,741
/ PRIOR FILING DATE: 2002-02-26
/ NUMBER OF SEQ ID NOS: 202
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 181
/ LENGTH: 1080000
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (826985)..(827008)
/ FEATURE:
/ OTHER INFORMATION: full exon 1 range is 826667-827008
/ FEATURE:
/ NAME/KEY: allele
/ LOCATION: (827008)..(827008)
/ OTHER INFORMATION: the 'n' at position 827008 may be 'a' or 'g'
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (843242)..(843315)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (922549)..(922630)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (926021)..(926059)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (929123)..(929176)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (993104)..(993154)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (999547)..(999608)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1000354)..(1000456)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1002118)..(1002284)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1006117)..(1006249)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1007860)..(1008036)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1010940)..(1011014)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1018160)..(1018291)
/ OTHER INFORMATION: exon
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/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1018800)..(1018919)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1020028)..(1020225)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1026659)..(1026736)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1028113)..(1028167)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1034316)..(1034374)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1041390)..(1041455)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1043121)..(1043350)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1044868)..(1044989)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1047519)..(1047589)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1050296)..(1050391)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1060368)..(1060441)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1062648)..(1062708)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1064561)..(1064620)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1066207)..(1066314)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1067768)..(1067864)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1068609)..(1068681)
/ OTHER INFORMATION: exon
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1073289)..(1073388)
/ OTHER INFORMATION: full exon 30 range is 1073289-1075279
/ US-10-928-446A-181
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Query Match 10.3%; Score 138.2; DB 6; Length 1080000;
Best Local Similarity 80.5%; Pred. No. 3.6e-33;
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Matches 186; Conservative 0; Mismatches 43; Indels 2; Gaps 2;  
QY 1 GGAAGCAACCTACATGCTCCATCAACAGATGAATGGGTAAAGAGAGTACTTCACTTATGCA 60  
Db 74428 GGAAGTAACTAGTGTTCATTAACAAATGAATCAATAAAGAAATGTGTACATATACA 74487  
QY 61 CAATGAGTACAAATTGAGCCATGAAAGAGCATGAGATCCTGCTTTTATATAAAGCTGG 120  
Db 74488 CAATGAGTACTATTAGTGCAT-AAAAAAGAAATGAGATCTTATCATTTGCAACAACATGG 74546  
QY 121 CTGGAACCTGAGGTCAATTGTTAGGTAAATAGCCAGGCACACAAAGACAGACA-TTG 179  
Db 74547 ATGAAACTGGAGTCAATTAGGTAAATAGCCAGGCACAGAAAGACAAACATTTG 74606  
QY 180 CATGTTCTCACTTATTGTGGGATCTACAAATCAAAACAAATTCAGCTAATG 230  
Db 74607 CATGTTCTCACTTATTGTGGGATCTGAAATCAAAAATGGAATCAATG 74657

RESULT 13

US-10-928-446A-183  
; Sequence 183, Application US/10928446A  
; Publication No. US2005027123A1  
; GENERAL INFORMATION:  
; APPLICANT: UNIVERSITY OF UTAH RESEARCH FOUNDATION  
; TITLE OF INVENTION: VARIANTS OF NEDD4L ASSOCIATED WITH HYPERTENSION AND  
; FILE REFERENCE: 0274-5785.IUS  
; CURRENT APPLICATION NUMBER: US/10/928,446A  
; CURRENT FILING DATE: 2004-08-26  
; PRIOR APPLICATION NUMBER: 60/359,741  
; PRIOR FILING DATE: 2002-02-26  
; NUMBER OF SEQ ID NOS: 202  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 183  
; LENGTH: 1080000  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (826985)..(827017)  
; FEATURE:  
; OTHER INFORMATION: full exon 1 range is 826667-827008  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (843242)..(843315)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (922549)..(922630)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (926021)..(926059)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (929123)..(929176)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (933104)..(933154)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (999547)..(999608)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1000354)..(1000456)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS

; LOCATION: (1002118)..(1002284)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1006117)..(1006249)  
; OTHER INFORMATION: exon  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1007860)..(1008036)  
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; Publication No. US2005027123A1
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; TITLE OF INVENTION: VARIANTS OF NEDD4L ASSOCIATED WITH HYPERTENSION AND
; TITLE OF INVENTION: VIRAL BUDDING
; FILE REFERENCE: 0274-5785.1US
; CURRENT APPLICATION NUMBER: US/10/928,446A
; CURRENT FILING DATE: 2004-08-26
; PRIOR APPLICATION NUMBER: 60/359,741
; PRIOR FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: PatentIn Ver. 2.1
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; LENGTH: 1080000
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US-10-928-446A-187

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 20:18:29 ; Search time 87.6768 Seconds  
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Post-processing: Minimum Match 0%  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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c 157	17.8	57.4	8078	3	US-09-702-251-3	Sequence 3, Appl	c 230	17.4	56.1	767677	3	US-09-949-016-17361	Sequence 17361, A
c 158	17.8	57.4	8187	3	US-10-131-827-8866	Sequence 8866, Ap	c 231	17.4	56.1	767677	3	US-09-270-767-25765	Sequence 2765, A
c 159	17.8	57.4	12840	3	US-09-949-016-15720	Sequence 15720, A	c 232	17.2	55.5	394	3	US-09-533-559-7695	Sequence 7695, Ap
c 160	17.8	57.4	19025	3	US-09-849-334-3	Sequence 3, Appl	c 233	17.2	55.5	344	3	US-09-513-999C-27031	Sequence 27031, A
c 161	17.8	57.4	19025	3	US-10-274-878-3	Sequence 3, Appl	c 234	17.2	55.5	444	3	US-09-602-787A-213	Sequence 213, App
c 162	17.8	57.4	19025	3	US-10-697-266-3	Sequence 3, Appl	c 235	17.2	55.5	467	3	US-09-118-442-26	Sequence 26, Appl
c 163	17.8	57.4	21119	3	US-09-453-702B-111	Sequence 111, App	c 236	17.2	55.5	549	3	US-09-677-064-26	Sequence 26, Appl
c 164	17.8	57.4	25431	3	US-10-114-170-111	Sequence 111, App	c 237	17.2	55.5	549	3	US-09-949-016-86476	Sequence 86476, A
c 165	17.8	57.4	25431	3	US-09-949-016-13234	Sequence 13234, A	c 238	17.2	55.5	601	3	US-09-949-016-107334	Sequence 107334, A
c 166	17.8	57.4	27120	3	US-09-949-016-16210	Sequence 16210, A	c 239	17.2	55.5	601	3	US-09-949-016-107335	Sequence 107335, A
c 167	17.8	57.4	27120	3	US-09-949-016-16210	Sequence 16210, A	c 240	17.2	55.5	601	3	US-09-949-016-126653	Sequence 126653, A
c 168	17.8	57.4	35064	3	US-09-949-016-12786	Sequence 12786, A	c 241	17.2	55.5	601	3	US-09-949-016-126653	Sequence 126653, A
c 169	17.8	57.4	35064	3	US-09-949-016-13196	Sequence 12786, A	c 242	17.2	55.5	601	3	US-09-949-016-126654	Sequence 126654, A
c 170	17.8	57.4	36620	3	US-09-949-016-16150	Sequence 16150, A	c 243	17.2	55.5	601	3	US-09-949-016-130710	Sequence 130710, A

244	17.2	55.5	601	3	US-09-949-016-160622	Sequence 160622,	317	17	54.8	1987	2	US-08-426-036-23	Sequence 23, Appl
245	17.2	55.5	601	3	US-09-949-016-160623	Sequence 160623,	318	17	54.8	1987	2	US-08-426-279-23	Sequence 23, Appl
246	17.2	55.5	601	3	US-09-949-016-160624	Sequence 160624,	319	17	54.8	1987	2	US-08-401-013-23	Sequence 23, Appl
247	17.2	55.5	601	3	US-09-949-016-181567	Sequence 181567,	320	17	54.8	1987	3	US-08-426-570-23	Sequence 23, Appl
248	17.2	55.5	601	3	US-09-949-016-181568	Sequence 181568,	321	17	54.8	1987	3	US-08-425-876-23	Sequence 23, Appl
249	17.2	55.5	601	3	US-09-949-016-181895	Sequence 181895,	322	17	54.8	1987	3	US-08-426-243-23	Sequence 23, Appl
c 250	17.2	55.5	601	3	US-09-949-016-205984	Sequence 205984,	323	17	54.8	1987	3	US-08-401-632-23	Sequence 23, Appl
c 251	17.2	55.5	797	3	US-09-270-767-10376	Sequence 10376, A	324	17	54.8	2060	3	US-09-370-807-1	Sequence 1, Appl
252	17.2	55.5	900	3	US-09-603-208A-73	Sequence 73, Appl	325	17	54.8	2060	3	US-09-921-259-1	Sequence 1, Appl
253	17.2	55.5	957	3	US-10-012-231A-247	Sequence 247, App	326	17	54.8	2802	3	US-09-949-016-82	Sequence 82, Appl
254	17.2	55.5	957	3	US-10-015-389A-247	Sequence 247, App	327	17	54.8	2802	3	US-09-949-016-1451	Sequence 1451, Ap
255	17.2	55.5	957	3	US-10-006-788A-247	Sequence 247, App	328	17	54.8	3048	2	US-08-313-200-2	Sequence 2, Appl
256	17.2	55.5	957	3	US-10-015-671A-247	Sequence 247, App	329	17	54.8	3048	2	US-09-251-039-1	Sequence 1, Appl
257	17.2	55.5	957	3	US-10-015-393A-247	Sequence 247, App	c 330	17	54.8	3048	6	PCT-US93-03837-2	Sequence 2, Appl
258	17.2	55.5	957	3	US-10-011-833A-247	Sequence 247, App	331	17	54.8	3331	2	US-07-999-280A-21	Sequence 21, Appl
259	17.2	55.5	957	3	US-10-006-041A-247	Sequence 247, App	332	17	54.8	3331	2	US-08-426-036-21	Sequence 21, Appl
260	17.2	55.5	957	3	US-10-012-064A-247	Sequence 247, App	333	17	54.8	3331	2	US-08-426-279-21	Sequence 21, Appl
261	17.2	55.5	1344	3	US-09-248-796A-2609	Sequence 2609, Ap	334	17	54.8	3331	2	US-08-401-013-21	Sequence 21, Appl
262	17.2	55.5	1652	3	US-09-949-016-3603	Sequence 3603, Ap	335	17	54.8	3331	2	US-08-426-570-21	Sequence 21, Appl
c 263	17.2	55.5	1752	3	US-09-602-787A-211	Sequence 211, App	336	17	54.8	3331	3	US-08-425-876-21	Sequence 21, Appl
c 264	17.2	55.5	2609	3	US-10-104-047-1941	Sequence 1941, Ap	337	17	54.8	3331	3	US-08-426-243-21	Sequence 21, Appl
c 265	17.2	55.5	2652	3	US-10-195-970-4	Sequence 4, Appl	338	17	54.8	3331	3	US-08-401-632-21	Sequence 21, Appl
c 266	17.2	55.5	2652	3	US-10-195-970-5	Sequence 5, Appl	c 339	17	54.8	5490	3	US-09-607-510-1	Sequence 1, Appl
c 267	17.2	55.5	2855	2	US-08-776-597A-1	Sequence 1, Appl	340	17	54.8	7845	3	US-09-949-016-14467	Sequence 14467, A
c 268	17.2	55.5	2855	2	US-08-693-228-1	Sequence 1, Appl	341	17	54.8	13693	3	US-09-949-016-15033	Sequence 15033, A
c 269	17.2	55.5	11366	3	US-09-949-016-13616	Sequence 13616, A	342	17	54.8	13693	3	US-09-949-016-15034	Sequence 15034, A
c 270	17.2	55.5	15507	3	US-09-949-016-17413	Sequence 17413, A	343	17	54.8	13693	3	US-09-949-016-15035	Sequence 15035, A
c 271	17.2	55.5	15511	3	US-09-949-016-11891	Sequence 11891, A	344	17	54.8	13693	3	US-09-949-016-15036	Sequence 15036, A
c 272	17.2	55.5	15615	3	US-09-949-016-17221	Sequence 17221, A	345	17	54.8	13814	3	US-09-949-016-16370	Sequence 16370, A
c 273	17.2	55.5	18448	3	US-09-949-016-15345	Sequence 15345, A	346	17	54.8	13814	3	US-09-949-016-16371	Sequence 16371, A
c 274	17.2	55.5	42250	3	US-09-949-016-15426	Sequence 15426, A	347	17	54.8	13814	3	US-09-949-016-16372	Sequence 16372, A
c 275	17.2	55.5	58273	3	US-09-949-016-14679	Sequence 14679, A	348	17	54.8	13814	3	US-09-949-016-16373	Sequence 16373, A
c 276	17.2	55.5	62873	3	US-09-949-016-15676	Sequence 15676, A	349	17	54.8	24522	3	US-09-949-016-11853	Sequence 11853, A
c 277	17.2	55.5	64639	3	US-09-949-016-11767	Sequence 11767, A	350	17	54.8	24523	3	US-09-949-016-15707	Sequence 15707, A
c 278	17.2	55.5	64639	3	US-09-949-016-13520	Sequence 13520, A	c 351	17	54.8	42810	3	US-09-949-016-13882	Sequence 13882, A
c 279	17.2	55.5	77536	3	US-09-410-551B-1	Sequence 1, Appl	352	17	54.8	58397	3	US-09-949-016-14469	Sequence 14469, A
c 280	17.2	55.5	77536	3	US-09-410-551B-1	Sequence 1, Appl	353	17	54.8	58397	3	US-09-949-016-15097	Sequence 15097, A
c 281	17.2	55.5	77536	3	US-09-940-316B-1	Sequence 1, Appl	354	17	54.8	73519	3	US-09-949-016-16344	Sequence 16344, A
c 282	17.2	55.5	77536	3	US-09-940-316B-1	Sequence 1, Appl	355	17	54.8	80411	3	US-09-949-016-15777	Sequence 15777, A
c 283	17.2	55.5	79350	3	US-09-949-016-12467	Sequence 12467, A	356	17	54.8	102008	3	US-09-949-016-16617	Sequence 16617, A
c 284	17.2	55.5	79351	3	US-09-949-016-16275	Sequence 16275, A	357	17	54.8	105919	3	US-09-949-016-11769	Sequence 11769, A
c 285	17.2	55.5	87594	3	US-09-949-016-12135	Sequence 12135, A	c 358	17	54.8	126200	3	US-09-949-016-11824	Sequence 11824, A
c 286	17.2	55.5	87611	3	US-09-949-016-16139	Sequence 16139, A	359	17	54.8	126200	3	US-09-949-016-13193	Sequence 13193, A
c 287	17.2	55.5	116966	3	US-09-949-016-17557	Sequence 17557, A	c 360	17	54.8	137226	3	US-09-949-016-13763	Sequence 13763, A
c 288	17.2	55.5	125672	3	US-09-949-016-16956	Sequence 16956, A	361	17	54.8	300420	3	US-09-949-016-13632	Sequence 13632, A
c 289	17.2	55.5	135667	3	US-09-949-016-15051	Sequence 15051, A	362	17	54.8	393753	3	US-09-949-016-14573	Sequence 14573, A
c 290	17.2	55.5	143644	3	US-09-949-016-15328	Sequence 15328, A	363	17	54.8	393753	3	US-09-949-016-14574	Sequence 14574, A
c 291	17.2	55.5	150780	3	US-09-949-016-14711	Sequence 14711, A	364	17	54.8	451924	3	US-09-949-016-12896	Sequence 12896, A
c 292	17.2	55.5	151088	3	US-09-949-016-16240	Sequence 16240, A	365	17	54.8	451925	3	US-09-949-016-17305	Sequence 17305, A
c 293	17.2	55.5	152486	3	US-09-949-016-12869	Sequence 12869, A	c 366	17	54.8	536165	3	US-09-214-808-1	Sequence 1, Appl
c 294	17.2	55.5	154600	3	US-09-949-016-14757	Sequence 14757, A	367	17	54.8	818128	3	US-09-949-016-14546	Sequence 14546, A
c 295	17.2	55.5	183112	3	US-09-949-016-14184	Sequence 14184, A	368	17	54.8	818128	3	US-09-949-016-14547	Sequence 14547, A
c 296	17.2	55.5	187848	3	US-09-949-016-12111	Sequence 12111, A	369	17	54.8	818128	3	US-09-949-016-14548	Sequence 14548, A
c 297	17.2	55.5	194714	3	US-09-949-016-11869	Sequence 11869, A	370	17	54.8	818128	3	US-09-949-016-14549	Sequence 14549, A
c 298	17.2	55.5	194790	3	US-09-949-016-15393	Sequence 15393, A	371	17	54.8	818128	3	US-09-949-016-14550	Sequence 14550, A
c 299	17.2	55.5	331814	3	US-09-949-016-12008	Sequence 12008, A	372	17	54.8	818128	3	US-09-949-016-14551	Sequence 14551, A
c 300	17.2	55.5	331814	3	US-09-949-016-17056	Sequence 17056, A	373	17	54.8	818128	3	US-09-949-016-14552	Sequence 14552, A
c 301	17	54.8	295	3	US-09-621-976-2149	Sequence 2149, Ap	374	17	54.8	818128	3	US-09-949-016-14553	Sequence 14553, A
c 302	17	54.8	601	3	US-09-949-016-64895	Sequence 64895, A	375	17	54.8	818128	3	US-09-949-016-14554	Sequence 14554, A
c 303	17	54.8	601	3	US-09-949-016-68788	Sequence 68788, A	376	17	54.8	818128	3	US-09-949-016-14555	Sequence 14555, A
c 304	17	54.8	601	3	US-09-949-016-68789	Sequence 68789, A	377	17	54.8	818128	3	US-09-949-016-14556	Sequence 14556, A
c 305	17	54.8	601	3	US-09-949-016-142806	Sequence 142806,	378	17	54.8	818128	3	US-09-949-016-14557	Sequence 14557, A
c 306	17	54.8	601	3	US-09-949-016-164208	Sequence 164208,	379	17	54.8	818128	3	US-09-949-016-14558	Sequence 14558, A
c 307	17	54.8	601	3	US-09-949-016-164209	Sequence 164209,	380	17	54.8	818128	3	US-09-949-016-14559	Sequence 14559, A
c 308	17	54.8	601	3	US-09-949-016-172153	Sequence 172153,	381	17	54.8	818128	3	US-09-949-016-14560	Sequence 14560, A
c 309	17	54.8	601	3	US-09-949-016-172154	Sequence 172154,	382	17	54.8	818128	3	US-09-949-016-14561	Sequence 14561, A
c 310	17	54.8	601	3	US-09-949-016-196328	Sequence 196328,	383	17	54.8	818128	3	US-09-949-016-14562	Sequence 14562, A
c 311	17	54.8	625	3	US-09-533-559-5347	Sequence 5347, Ap	384	17	54.8	818128	3	US-09-949-016-14564	Sequence 14564, A
c 312	17	54.8	699	3	US-09-540-236-1842	Sequence 1842, Ap	385	17	54.8	818128	3	US-09-949-016-14565	Sequence 14565, A
c 313	17	54.8	700	3	US-09-735-271-52	Sequence 52, Appl	386	17	54.8	818128	3	US-09-949-016-14566	Sequence 14566, A
c 314	17	54.8	1788	3	US-08-303-861-1	Sequence 1, Appl	387	17	54.8	818128	3	US-09-949-016-14567	Sequence 14567, A
c 315	17	54.8	1792	3	US-09-799-451-362	Sequence 362, App	c 388	17	54.8	4403765	3	US-09-103-840A-2	Sequence 2, Appl
c 316	17	54.8	1987	2	US-07-999-280A-23	Sequence 23, Appl	c 389	17	54.8	4411529	3	US-09-103-840A-1	Sequence 1, Appl

390	16.8	54.2	205	3	US-09-313-294A-1696	Sequence 1696, Ap	c 463	16.8	54.2	2584	2	US-08-322-742-13	Sequence 13, Appl
391	16.8	54.2	270	3	US-09-313-294A-890	Sequence 890, App	c 464	16.8	54.2	2584	2	US-08-477-108A-1	Sequence 1, Appl
C 392	16.8	54.2	277	3	US-09-313-294A-1683	Sequence 1683, Ap	c 465	16.8	54.2	2584	2	US-08-477-112-1	Sequence 1, Appl
393	16.8	54.2	319	3	US-08-956-1718-4349	Sequence 4349, Ap	c 466	16.8	54.2	2584	6	PCT-US93-08322-1	Sequence 1, Appl
394	16.8	54.2	319	3	US-08-781-986A-4349	Sequence 4349, Ap	c 467	16.8	54.2	3171	3	US-09-169-768-19	Sequence 19, Appl
C 395	16.8	54.2	322	3	US-09-270-767-4170	Sequence 4170, Ap	c 468	16.8	54.2	3171	3	US-10-153-469A-19	Sequence 19, Appl
C 396	16.8	54.2	322	3	US-09-270-767-19452	Sequence 19452, A	c 469	16.8	54.2	3171	3	US-10-104-889-19	Sequence 19, Appl
C 397	16.8	54.2	322	3	US-09-540-236-723	Sequence 723, App	c 470	16.8	54.2	3560	2	US-08-121-713D-59	Sequence 59, Appl
398	16.8	54.2	601	3	US-09-949-016-30481	Sequence 30481, A	c 471	16.8	54.2	3560	2	US-08-835-268-59	Sequence 59, Appl
399	16.8	54.2	601	3	US-09-949-016-53376	Sequence 53376, A	c 472	16.8	54.2	3560	2	US-09-060-693-59	Sequence 59, Appl
400	16.8	54.2	601	3	US-09-949-016-58818	Sequence 58818, A	c 473	16.8	54.2	3560	3	US-08-833-391-59	Sequence 59, Appl
401	16.8	54.2	601	3	US-09-949-016-59359	Sequence 59359, A	c 474	16.8	54.2	3560	3	US-09-060-610-59	Sequence 59, Appl
402	16.8	54.2	601	3	US-09-949-016-59360	Sequence 59360, A	c 475	16.8	54.2	3560	6	PCT-US94-10151A-59	Sequence 59, Appl
403	16.8	54.2	601	3	US-09-949-016-96382	Sequence 96382, A	c 476	16.8	54.2	3997	3	US-09-270-767-28607	Sequence 28607, A
404	16.8	54.2	601	3	US-09-949-016-96382	Sequence 96648, A	c 477	16.8	54.2	4822	3	US-09-270-767-12784	Sequence 12784, A
405	16.8	54.2	601	3	US-09-949-016-96382	Sequence 96914, A	c 478	16.8	54.2	4907	3	US-09-902-540-705	Sequence 705, App
406	16.8	54.2	601	3	US-09-949-016-97180	Sequence 97180, A	c 479	16.8	54.2	4908	3	US-10-001-887-33	Sequence 33, Appl
407	16.8	54.2	601	3	US-09-949-016-97446	Sequence 97446, A	c 480	16.8	54.2	5166	3	US-09-799-451-67	Sequence 67, Appl
408	16.8	54.2	601	3	US-09-949-016-97712	Sequence 97712, A	c 481	16.8	54.2	5235	2	US-09-031-485-35	Sequence 35, Appl
409	16.8	54.2	601	3	US-09-949-016-97978	Sequence 97978, A	c 482	16.8	54.2	5235	2	US-09-031-485-35	Sequence 35, Appl
410	16.8	54.2	601	3	US-09-949-016-98244	Sequence 98244, A	c 483	16.8	54.2	5235	2	US-08-847-429A-35	Sequence 35, Appl
411	16.8	54.2	601	3	US-09-949-016-98510	Sequence 98510, A	c 484	16.8	54.2	5235	2	US-08-847-429A-36	Sequence 36, Appl
412	16.8	54.2	601	3	US-09-949-016-98776	Sequence 98776, A	c 485	16.8	54.2	5235	3	US-09-065-474-35	Sequence 35, Appl
413	16.8	54.2	601	3	US-09-949-016-99042	Sequence 99042, A	c 486	16.8	54.2	5235	3	US-09-065-474-35	Sequence 35, Appl
414	16.8	54.2	601	3	US-09-949-016-99308	Sequence 99308, A	c 487	16.8	54.2	5235	3	US-09-557-034-36	Sequence 35, Appl
415	16.8	54.2	601	3	US-09-949-016-99574	Sequence 99574, A	c 488	16.8	54.2	5235	3	US-09-557-034-36	Sequence 36, Appl
416	16.8	54.2	601	3	US-09-949-016-99840	Sequence 99840, A	c 489	16.8	54.2	5503	2	US-09-031-485-32	Sequence 32, Appl
417	16.8	54.2	601	3	US-09-949-016-100106	Sequence 100106, A	c 490	16.8	54.2	5503	2	US-09-031-485-34	Sequence 34, Appl
418	16.8	54.2	601	3	US-09-949-016-100372	Sequence 100372, A	c 491	16.8	54.2	5503	2	US-08-847-429A-32	Sequence 32, Appl
419	16.8	54.2	601	3	US-09-949-016-100638	Sequence 100638, A	c 492	16.8	54.2	5503	2	US-08-847-429A-34	Sequence 34, Appl
420	16.8	54.2	601	3	US-09-949-016-100942	Sequence 100942, A	c 493	16.8	54.2	5503	3	US-09-065-474-32	Sequence 32, Appl
421	16.8	54.2	601	3	US-09-949-016-101208	Sequence 101208, A	c 494	16.8	54.2	5503	3	US-09-065-474-34	Sequence 34, Appl
422	16.8	54.2	601	3	US-09-949-016-101474	Sequence 101474, A	c 495	16.8	54.2	5503	3	US-09-557-034-32	Sequence 32, Appl
423	16.8	54.2	601	3	US-09-949-016-101740	Sequence 101740, A	c 496	16.8	54.2	5503	3	US-09-557-034-34	Sequence 34, Appl
424	16.8	54.2	601	3	US-09-949-016-161164	Sequence 161164, A	c 497	16.8	54.2	6703	3	US-09-596-002-7	Sequence 7, Appl
C 425	16.8	54.2	601	3	US-09-949-016-179157	Sequence 179157, A	c 498	16.8	54.2	6908	3	US-09-949-016-14842	Sequence 14842, A
C 426	16.8	54.2	601	3	US-09-949-016-188451	Sequence 188451, A	c 499	16.8	54.2	7861	3	US-09-774-528-305	Sequence 305, App
427	16.8	54.2	700	3	US-09-735-271-1048	Sequence 1048, Ap	c 500	16.8	54.2	7861	3	US-10-120-988-305	Sequence 305, App
C 428	16.8	54.2	717	3	US-09-489-039A-5257	Sequence 5257, Ap	c 501	16.8	54.2	9968	3	US-09-949-016-12472	Sequence 12472, A
C 429	16.8	54.2	1133	3	US-10-000-489-57	Sequence 57, Appl	c 502	16.8	54.2	9969	3	US-09-949-016-15903	Sequence 15903, A
C 430	16.8	54.2	1227	2	US-09-031-485-17	Sequence 17, Appl	c 503	16.8	54.2	10223	3	US-09-949-016-14500	Sequence 14500, A
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C 434	16.8	54.2	1227	3	US-09-065-474-17	Sequence 17, Appl	c 507	16.8	54.2	17284	3	US-09-949-016-16000	Sequence 16000, A
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C 437	16.8	54.2	1227	3	US-09-557-034-18	Sequence 18, Appl	c 510	16.8	54.2	21170	3	US-09-949-016-12480	Sequence 12480, A
C 438	16.8	54.2	1228	2	US-09-031-485-14	Sequence 14, Appl	c 511	16.8	54.2	23094	3	US-09-949-016-13468	Sequence 13468, A
C 439	16.8	54.2	1228	2	US-09-031-485-16	Sequence 16, Appl	c 512	16.8	54.2	27630	3	US-09-949-016-16362	Sequence 16362, A
C 440	16.8	54.2	1228	2	US-08-847-429A-14	Sequence 14, Appl	c 513	16.8	54.2	34125	3	US-09-782-378A-25	Sequence 25, Appl
C 441	16.8	54.2	1228	2	US-08-847-429A-16	Sequence 16, Appl	c 514	16.8	54.2	38564	3	US-09-734-673-3	Sequence 3, Appl
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C 445	16.8	54.2	1228	3	US-09-557-034-16	Sequence 16, Appl	c 518	16.8	54.2	49301	3	US-09-949-016-16296	Sequence 16296, A
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C 447	16.8	54.2	1266	3	US-09-065-474-143	Sequence 143, App	c 520	16.8	54.2	49559	3	US-09-949-016-17267	Sequence 17267, A
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C 458	16.8	54.2	2107	3	US-09-775-398-89	Sequence 89, App	c 531	16.8	54.2	228851	3	US-09-949-016-13781	Sequence 13781, A
C 459	16.8	54.2	2181	3	US-09-252-931A-10196	Sequence 10196, A	c 532	16.8	54.2	254778	3	US-09-949-016-12417	Sequence 12417, A
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c 537	16.8	54.2	767677	3	US-09-949-016-12147	Sequence 12147, A	610	16.6	53.5	601	3	US-09-949-016-187767	Sequence 187767,
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c 590	16.6	53.5	601	3	US-09-949-016-108857	Sequence 108857, A	663	16.6	53.5	3600	3	US-10-104-047-1011	Sequence 1011, Ap
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c 608	16.6	53.5	601	3	US-09-949-016-175870	Sequence 175870, A	681	16.6	53.5	23928	3	US-09-949-016-163915	Sequence 16315, A











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; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CU001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-09-08
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
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US-09-949-016-12962

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RESULT 5
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; Sequence 1, Application US/09372339
; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; CURRENT FILING DATE: 1999-08-11
; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 6
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US-09-372-339-1

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RESULT 6
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; Sequence 2, Application US/09372339
; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; CURRENT FILING DATE: 1999-08-11
; EARLIER APPLICATION NUMBER: 60/096,586
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US-09-372-339-2

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Best Local Similarity 86.7%; Pred. No. 1.3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 GGGCTCTGCTGGCTGGCTTGC AAGGATGT 31
      |||||||
Db      668 GGGCTCTGCTGGCTGGCTTGC AAGGATGT 697

RESULT 7
US-09-144-367-3
; Sequence 3, Application US/09144367
; Patent No. 6432639
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/09/144,367
; CURRENT FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/058,612
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
US-09-144-367-3

Query Match      76.1%; Score 23.6; DB 3; Length 1345;
Best Local Similarity 86.7%; Pred. No. 1.3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 GGGCTCTGCTGGCTGGCTTGC AAGGATGT 31
      |||||||
Db      668 GGGCTCTGCTGGCTGGCTTGC AAGGATGT 697

RESULT 8
US-10-085-612A-3
; Sequence 3, Application US/10085612A
; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-CI
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
```

## US-10-085-612A-3

Query Match 76.1%; Score 23.6; DB 3; Length 1345;  
Best Local Similarity 86.7%; Pred. No. 1.3;  
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31  
|||  
Db 668 GGCTCTGTCTGTGGTTGGAGGATGT 697

## RESULT 9

US-09-949-016-12963  
; Sequence 12963, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12963  
; LENGTH: 31197  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-12963

Query Match 76.1%; Score 23.6; DB 3; Length 31197;  
Best Local Similarity 86.7%; Pred. No. 2;  
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31  
|||  
Db 1565 GGCTCTGTCTGTGGTTGGAGGATGT 1594

## RESULT 10

US-09-949-016-14432  
; Sequence 14432, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14432  
; LENGTH: 34172  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-14432

Query Match 76.1%; Score 23.6; DB 3; Length 34172;  
Best Local Similarity 86.7%; Pred. No. 2.1;  
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31  
|||  
Db 1577 GGCTCTGTCTGGCTGGTATGAAGGATGT 1606

## RESULT 11

US-09-949-016-143004/c  
; Sequence 143004, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 143004  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-143004

Query Match 65.8%; Score 20.4; DB 3; Length 601;  
Best Local Similarity 80.0%; Pred. No. 25;  
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGAAGGATG 30  
|||  
Db 30 GGCTCTGTGGCTGGCTCTTGAAGGATG 1

## RESULT 12

US-09-949-016-143005/c  
; Sequence 143005, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 143005  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-143005

Query Match 65.8%; Score 20.4; DB 3; Length 601;  
Best Local Similarity 80.0%; Pred. No. 25;  
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGAAGGATG 30  
|||  
Db 42 GGCTCTGTGGCTGGCTCTTGAAGGATG 13

```

RESULT 13
US-09-949-016-15779
; Sequence 15779, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15779
; LENGTH: 265038
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(265038)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15779

Query Match          65.8%; Score 20.4; DB 3; Length 265038;
Best Local Similarity 80.0%; Pred. No. 65;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 GGGGCTGTCTGGCTGGCTTGCAGGATG 30
Db      180833 GGCGCTGGCTGGCTGGCTTGCAGGATG 180862
|||||
|||||

RESULT 14
US-09-949-016-115100/c
; Sequence 115100, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115100
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-115100

Query Match          61.9%; Score 19.2; DB 3; Length 601;
Best Local Similarity 87.5%; Pred. No. 82;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 GGGGCTGTCTGGCTGGCTTGCAC 24
Db      8970 GGAGTCGTACTGCTGGCTTGCA 49
|||||
|||||

RESULT 15
US-09-949-016-115101/C
; Sequence 115101, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115101
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-115101

Query Match          61.9%; Score 19.2; DB 3; Length 601;
Best Local Similarity 87.5%; Pred. No. 82;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 GGGGCTGTCTGGCTGGCTTGCAC 24
Db      72 GGAGTCGTACTGCTGGCTTGCA 49
|||||
|||||

RESULT 16
US-09-949-016-13507/c
; Sequence 13507, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13507
; LENGTH: 14721
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13507

Query Match          61.9%; Score 19.2; DB 3; Length 14721;
Best Local Similarity 87.5%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 GGGTCTGTCTGGCTGGCTTGCAA 25
Db      8970 GGCTCTCCCTGGCTGGCTTGCAA 8947
|||||
|||||

RESULT 17
US-09-949-016-14890/c
; Sequence 14890, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:

```



ZIP: 22042  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/09098  
FILING DATE: 20-JUL-1995  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Murphy Jr., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 2185-110P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 205-8000  
TELEFAX: (703) 205-8050  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3883 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Chlamydomonas reinhardtii  
STRAIN: RS-3  
PCT-US95-09098-1

Query Match 61.3%; Score 19; DB 6; Length 3883;  
Best Local Similarity 81.5%; Pred. No. 1.3e+02;  
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GTCTGCTGGCTGGCTTGCAGGATG 30  
DB 2008 GTCCCGCTGGATGGCTTGCAGGATG 1982

RESULT 22  
US-09-949-016-746/c  
; Sequence 746, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 746  
; LENGTH: 4495  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-746

Query Match 61.3%; Score 19; DB 3; Length 4495;  
Best Local Similarity 81.5%; Pred. No. 1.4e+02;  
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGGCTGGCTTGCAGG 27  
DB 4216 GGGGCTGCTGGATGGGTGGCAGG 4190

RESULT 23  
US-09-023-655-1138/c  
; Sequence 1138, Application US/09023655  
; Patent No. 6607879  
; GENERAL INFORMATION:  
; APPLICANT: Cocks, Benjamin G.  
; APPLICANT: Susan G. Stuart  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
; TITLE OF INVENTION: EXPRESSION  
; NUMBER OF SEQUENCES: 1508  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,655  
FILING DATE: HERewith  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0001 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 1138:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4637 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GENBANK  
CLONE: g186496  
US-09-023-655-1138

Query Match 61.3%; Score 19; DB 3; Length 4637;  
Best Local Similarity 81.5%; Pred. No. 1.4e+02;  
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGGCTGGCTTGCAGG 27  
DB 4358 GGGGCTGGATGGGTGGCAGG 4332

RESULT 24  
US-09-949-016-319/c  
; Sequence 319, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20

```
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 319
; LENGTH: 4637
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-319

Query Match          61.3%; Score 19; DB 3; Length 4637;
Best Local Similarity 81.5%; Pred. No. 1.4e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGGGCTGCTGGCTGGCTTGCAGG 27
    ||||| ||||| ||||| ||||| |||||
Db 4358 GGGGCTGCTGGATGGGTGGCAGG 4332

RESULT 25
US-09-949-016-12130/c
; Sequence 12130, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12130
; LENGTH: 52789
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(52789)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12130

Query Match          61.3%; Score 19; DB 3; Length 52789;
Best Local Similarity 81.5%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTGCTGCTGGCTTGCAGGATGT 31
    ||||| ||||| ||||| ||||| |||||
Db 51166 TCTGCTGCTGGCTAGCCCCAATGT 51140

RESULT 26
US-09-949-016-16641/c
; Sequence 16641, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16641
; LENGTH: 52790
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(52790)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16641

Query Match          61.3%; Score 19; DB 3; Length 52790;
Best Local Similarity 81.5%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTGCTGCTGGCTTGCAGGATGT 31
    ||||| ||||| ||||| ||||| |||||
Db 51166 TCTGCTGCTGGCTAGCCCCAATGT 51140

RESULT 27
US-09-949-016-13375
; Sequence 13375, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13375
; LENGTH: 70262
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(70262)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13375

Query Match          61.3%; Score 19; DB 3; Length 70262;
Best Local Similarity 81.5%; Pred. No. 2.1e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 GGTCGTGCTGGCTGGCTTGCAGGAT 29
    ||||| ||||| ||||| ||||| |||||
Db 18745 GGTCGTGGTGGCTGGACAGCAAGGAT 18771

RESULT 28
US-09-949-016-12748
; Sequence 12748, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12748
; LENGTH: 70262
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(70262)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12748

Query Match          61.3%; Score 19; DB 3; Length 70262;
Best Local Similarity 81.5%; Pred. No. 2.1e+02;
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 GGTCGTGCTGGCTGGCTTGCAGGAT 29
    ||||| ||||| ||||| ||||| |||||
Db 18745 GGTCGTGGTGGCTGGACAGCAAGGAT 18771
```



; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12748  
; LENGTH: 70263  
; TYPE: DNA  
; ORGANISM: Human  
; US-09-949-016-12748

Query Match 61.3%; Score 19; DB 3; Length 70263;  
Best Local Similarity 81.5%; Pred. No. 2.1e+02;  
Matches 22; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 GGTCTGTCTGGCTGGCTTCAAGGAT 29  
||| ||||| ||||| |||||  
Db 18755 GGTCTGGTGGCTGGACAGGCAAGGAT 18781

## RESULT 29

US-09-949-016-67271  
; Sequence 67271, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 67271

; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
; US-09-949-016-67271

Query Match 60.6%; Score 18.8; DB 3; Length 601;  
Best Local Similarity 90.9%; Pred. No. 1.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGCTCTGTCTGCTGGCTTG 22  
||| ||||| ||||| |||||  
Db 495 GGGCTCTGCTGGCTGGCTTG 516

## RESULT 30

US-09-949-016-12877/c  
; Sequence 12877, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12877

; LENGTH: 27380  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(27380)  
; OTHER INFORMATION: n = A,T,C or G  
; US-09-949-016-12877

Query Match 60.6%; Score 18.8; DB 3; Length 27380;  
Best Local Similarity 90.9%; Pred. No. 2.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CTGCTGGCTGGCTTGCAAGG 27  
||| ||||| ||||| |||||  
Db 21634 CTCTCTGGCTGGCTGGCAAGG 21613

## RESULT 31

US-09-949-016-14393/c  
; Sequence 14393, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14393  
; LENGTH: 27383

; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(27383)  
; OTHER INFORMATION: n = A,T,C or G  
; US-09-949-016-14393

Query Match 60.6%; Score 18.8; DB 3; Length 27383;  
Best Local Similarity 90.9%; Pred. No. 2.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CTGCTGGCTGGCTTGCAAGG 27  
||| ||||| ||||| |||||  
Db 21634 CTCTCTGGCTGGCTGGCAAGG 21613

## RESULT 32

US-09-949-016-17117  
; Sequence 17117, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08

```
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17117
; LENGTH: 43267
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(43267)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17117

Query Match          60.6%; Score 18.8; DB 3; Length 43267;
Best Local Similarity 90.9%; Pred. No. 2.4e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGGCTGGGCTTG 22
Db 20918 GGGTCTGTCTGGCTGGTGTG 20939

RESULT 33
US-09-949-016-11771
; Sequence 11771, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11771
; LENGTH: 57139
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11771

Query Match          60.6%; Score 18.8; DB 3; Length 57139;
Best Local Similarity 76.7%; Pred. No. 2.5e+02;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGGGCTTCAAGGATGT 31
Db 13550 GAGTCCTTCTGTGGCTTCCAGGAGGT 13579

RESULT 34
US-09-949-016-16233
; Sequence 16233, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16233
; LENGTH: 57150
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16233

Query Match          60.6%; Score 18.8; DB 3; Length 57150;
Best Local Similarity 76.7%; Pred. No. 2.5e+02;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 GGGTCTGTCTGGCTGGGCTTCAAGGATGT 31
Db 13550 GAGTCCTTCTGTGGCTTCCAGGAGGT 13579

RESULT 35
US-09-949-016-12511
; Sequence 12511, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12511
; LENGTH: 100463
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(100463)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12511

Query Match          60.6%; Score 18.8; DB 3; Length 100463;
Best Local Similarity 90.9%; Pred. No. 2.7e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCTGTCTGTGGCTGGGCTTG 22
Db 59040 GGCCTCTGCTGGCTGGGCTTG 59061

RESULT 36
US-09-949-016-13725
; Sequence 13725, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 13725
; LENGTH: 100468
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(100468)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13725

Query Match          60.6%; Score 18.8; DB 3; Length 100468;
Best Local Similarity 90.9%; Pred. No. 2.7e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCTGCTGGCTGGCTGG 22
   ||||| ||||| ||||| |||||
Db 59040 GCGCTCTGCCCTGGCTGGCTGG 59061

RESULT 37
US-09-596-002-24/c
; Sequence 24, Application US/09596002
; Patent No. 6632636
; GENERAL INFORMATION:
; APPLICANT: Lagace, Robert, E.
; APPLICANT: Patterson, Chandra
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF MORAXELLA CATARRHALIS GENOME
; FILE REFERENCE: PM-0008-4 US
; CURRENT APPLICATION NUMBER: US/09/596,002
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/140,121
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PERL Program
; SEQ ID NO 24
; LENGTH: 33248
; TYPE: DNA
; ORGANISM: M. catarrhalis
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte template ID No. 6632636 24
; PUBLICATION INFORMATION:
US-09-596-002-24

Query Match          60.0%; Score 18.6; DB 3; Length 33248;
Best Local Similarity 84.0%; Pred. No. 2.8e+02;
Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 CTGTCCTGGCTGGCTGGCTGG 30
   ||||| ||||| ||||| |||||
Db 4982 CTGTTGGCTGGCTGGCTGG 4958

RESULT 38
US-09-949-016-17489
; Sequence 17489, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17489
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-155394

; SEQ ID NO 17489
; LENGTH: 54711
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-17489

Query Match          60.0%; Score 18.6; DB 3; Length 54711;
Best Local Similarity 84.0%; Pred. No. 3e+02;
Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 7 TGTCTGGCTGGCTGGCTGG 31
   ||||| ||||| ||||| |||||
Db 44825 TGACTGGCTGGGACTGCAAGAGGT 44849

RESULT 39
US-09-949-016-32584/c
; Sequence 32584, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32584
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-32584

Query Match          59.4%; Score 18.4; DB 3; Length 601;
Best Local Similarity 78.6%; Pred. No. 1.8e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 GGTCTGCTGCTGGCTGGCTGG 30
   ||||| ||||| ||||| |||||
Db 64 GGTTCCTAGCTCAGCTTGCAATGATG 37

RESULT 40
US-09-949-016-155394/c
; Sequence 155394, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 155394
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-155394
```

Query Match 59.4%; Score 18.4; DB 3; Length 601;  
Best Local Similarity 78.6%; Pred. No. 1.8e+02;  
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 3 GGTCCTGCTGGCTGGCTTGCAGGATG 30  
||||| ||| ||| ||||||| |||||  
Db 64 GGTTCCTAGCTCAGCTTGCATGATG 37

## RESULT 41

US-08-980-326-75/c  
; Sequence 75, Application US/08980326  
; Patent No. 6703197  
; GENERAL INFORMATION:  
; APPLICANT: Gravel, Roy A.  
; APPLICANT: Rozen, Rima  
; APPLICANT: LeClerc, Daniel  
; APPLICANT: Goyette, Philippe  
; APPLICANT: Campeau, Eric  
; TITLE OF INVENTION: HUMAN METHIONINE SYNTHASE: CLONING, AND  
; TITLE OF INVENTION: METHODS FOR EVALUATING RISK OF NEURAL TUBE DEFECTS,  
; TITLE OF INVENTION: CARDIOVASCULAR DISEASE AND CANCER  
; FILE REFERENCE: 50004/002003  
; CURRENT APPLICATION NUMBER: US/08/980,326  
; CURRENT FILING DATE: 1997-11-26  
; EARLIER APPLICATION NUMBER: 60/050,310  
; EARLIER FILING DATE: 1997-06-20  
; EARLIER APPLICATION NUMBER: 60/031,964  
; EARLIER FILING DATE: 1996-11-27  
; NUMBER OF SEQ ID NOS: 75  
; SOFTWARE: Fast-Seq for Windows Version 3.0  
; SEQ ID NO 75  
; LENGTH: 3856  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: variation  
; LOCATION: (1)...(1265)  
; OTHER INFORMATION: Coding sequence for mutant methionine synthases:  
; OTHER INFORMATION: 2640-2642 can be AAT or deleted;2756 can be A or  
; OTHER INFORMATION: G;2758 can be C or G.  
US-08-980-326-75

Query Match 59.4%; Score 18.4; DB 3; Length 3856;  
Best Local Similarity 78.6%; Pred. No. 2.4e+02;  
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGGCTTGCAGGA 28  
||||| ||| ||| ||||||| |||||  
Db 3549 GTGTCGGCTGGCTGGGTAGCCAGGA 3522

## RESULT 42

US-08-980-326-1/c  
; Sequence 1, Application US/08980326  
; Patent No. 6703197  
; GENERAL INFORMATION:  
; APPLICANT: Gravel, Roy A.  
; APPLICANT: Rozen, Rima  
; APPLICANT: LeClerc, Daniel  
; APPLICANT: Goyette, Philippe  
; APPLICANT: Campeau, Eric  
; TITLE OF INVENTION: HUMAN METHIONINE SYNTHASE: CLONING, AND  
; TITLE OF INVENTION: METHODS FOR EVALUATING RISK OF NEURAL TUBE DEFECTS,  
; TITLE OF INVENTION: CARDIOVASCULAR DISEASE AND CANCER  
; FILE REFERENCE: 50004/002003  
; CURRENT APPLICATION NUMBER: US/08/980,326  
; CURRENT FILING DATE: 1997-11-26  
; EARLIER APPLICATION NUMBER: 60/050,310  
; EARLIER FILING DATE: 1997-06-20  
; EARLIER APPLICATION NUMBER: 60/031,964  
; EARLIER FILING DATE: 1996-11-27

; NUMBER OF SEQ ID NOS: 75  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1  
; LENGTH: 3919  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: Other  
; LOCATION: (1)...(3919)  
; OTHER INFORMATION: Entire cloned cDNA encoding wild type methionine  
; OTHER INFORMATION: synthase.  
US-08-980-326-1

Query Match 59.4%; Score 18.4; DB 3; Length 3919;  
Best Local Similarity 78.6%; Pred. No. 2.4e+02;  
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGGCTTGCAGGA 28  
||||| ||| ||| ||||||| |||||  
Db 3612 GTGTCGGCTGGCTGGGTAGCCAGGA 3585

## RESULT 43

US-09-318-448-2/c  
; Sequence 2, Application US/09318448  
; Patent No. 6210950  
; GENERAL INFORMATION:  
; APPLICANT: Johnson, William G.  
; APPLICANT: Stenroos, Edward S.  
; TITLE OF INVENTION: METHODS FOR DIAGNOSING, PREVENTING, AND TREATING  
; TITLE OF INVENTION: DEVELOPMENTAL DISORDERS  
; FILE REFERENCE: 601-1-057  
; CURRENT APPLICATION NUMBER: US/09/318,448  
; CURRENT FILING DATE: 1999-05-25  
; NUMBER OF SEQ ID NOS: 46  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 7122  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-318-448-2

Query Match 59.4%; Score 18.4; DB 3; Length 7122;  
Best Local Similarity 78.6%; Pred. No. 2.6e+02;  
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGCTGGCTGGCTTGCAGGA 28  
||||| ||| ||| ||||||| |||||  
Db 3835 GTGTCGGCTGGCTGGGTAGCCAGGA 3808

## RESULT 44

US-09-347-878-4/c  
; Sequence 4, Application US/09347878C  
; Patent No. 6376210  
; GENERAL INFORMATION:  
; APPLICANT: Yuan, Chong  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES  
; FILE REFERENCE: 25885-1651  
; CURRENT APPLICATION NUMBER: US/09/347,878C  
; CURRENT FILING DATE: 1999-07-06  
; NUMBER OF SEQ ID NOS: 75  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 7122  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (287)...(4084)  
; OTHER INFORMATION: Human methionine synthase cDNA  
; PUBLICATION INFORMATION:  
; DATABASE ACCESSION NUMBER: U75743/GenBank

```
US-09-347-878-4
Query Match      59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCACGGA 28
Db 3835 GTGGTCGGCTGGCTGGGTAGCCAGGA 3808

RESULT 45
US-09-577-266-2/c
; Sequence 2, Application US/09577266
; Patent No. 6912492
; GENERAL INFORMATION:
; APPLICANT: Johnson, William G.
; APPLICANT: Stenroos, Edward S.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: DEVELOPMENTAL DISORDERS
; FILE REFERENCE: 601-1-057N
; CURRENT APPLICATION NUMBER: US/09/577,266
; CURRENT FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/136,198
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 7122
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-577-266-2

Query Match      59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCACGGA 28
Db 3835 GTGGTCGGCTGGCTGGGTAGCCAGGA 3808

RESULT 46
US-09-347-878-6/c
; Sequence 6, Application US/09347878C
; Patent No. 6376210
; GENERAL INFORMATION:
; APPLICANT: Yuan, Chong
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
; FILE REFERENCE: 25885-1651
; CURRENT APPLICATION NUMBER: US/09/347,878C
; CURRENT FILING DATE: 1999-07-06
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (395)..(4192)
; OTHER INFORMATION: Human methionine synthase
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: U73338/GenBank
US-09-347-878-6

Query Match      59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCACGGA 28
Db 3835 GTGGTCGGCTGGCTGGGTAGCCAGGA 3808

US-09-347-878-4
Query Match      59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCACGGA 28
Db 3835 GTGGTCGGCTGGCTGGGTAGCCAGGA 3808

RESULT 45
US-09-577-266-2/c
; Sequence 2, Application US/09577266
; Patent No. 6912492
; GENERAL INFORMATION:
; APPLICANT: Johnson, William G.
; APPLICANT: Stenroos, Edward S.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: DEVELOPMENTAL DISORDERS
; FILE REFERENCE: 601-1-057N
; CURRENT APPLICATION NUMBER: US/09/577,266
; CURRENT FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/136,198
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 7122
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-577-266-2

Query Match      59.4%; Score 18.4; DB 3; Length 7122;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCACGGA 28
Db 3835 GTGGTCGGCTGGCTGGGTAGCCAGGA 3808

RESULT 46
US-09-347-878-6/c
; Sequence 6, Application US/09347878C
; Patent No. 6376210
; GENERAL INFORMATION:
; APPLICANT: Yuan, Chong
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
; FILE REFERENCE: 25885-1651
; CURRENT APPLICATION NUMBER: US/09/347,878C
; CURRENT FILING DATE: 1999-07-06
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (395)..(4192)
; OTHER INFORMATION: Human methionine synthase
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: U73338/GenBank
US-09-347-878-6

Query Match      59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCACGGA 28
Db 3835 GTGGTCGGCTGGCTGGGTAGCCAGGA 3808

US-09-962-665-1/c
Query Match      59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCACGGA 28
Db 3943 GTGGTCGGCTGGCTGGGTAGCCAGGA 3916

RESULT 48
US-09-963-333-1/c
; Sequence 1, Application US/09963333
; Patent No. 6664062
; GENERAL INFORMATION:
; APPLICANT: Stanton, Jr., Vincent P.
; TITLE OF INVENTION: THYMIDINE SYNTHASE GENE SEQUENCE VARIANCES
; TITLE OF INVENTION: HAVING UTILITY IN DETERMINING THE TREATMENT
; FILE REFERENCE: 11926-015002
; CURRENT APPLICATION NUMBER: US/09/963,333
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: 09/658,659
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: 09/596,033
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; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/357,743
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 09/357,024
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: 60/093,484
; PRIOR FILING DATE: 1998-07-20
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 194..3209
; OTHER INFORMATION: n = c or g
; NAME/KEY: misc_feature
; LOCATION: 1136, 1334, 3150, 5551, 5934
; OTHER INFORMATION: n = a or g
; NAME/KEY: misc_feature
; LOCATION: 284, 1252, 1699, 5573, 5659, 5678, 5874
; OTHER INFORMATION: n = c or t
; NAME/KEY: misc_feature
; LOCATION: 3207
; OTHER INFORMATION: n = g or t
; NAME/KEY: misc_feature
; LOCATION: 5444
; OTHER INFORMATION: n = c or a
; US-09-963-333-1

Query Match          59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db      3943 GTGCTCGGCTGGCTGGGTAGCCAGGA 3916

RESULT 49
US-09-962-677-1/c
; Sequence 1, Application US/09962677
; Patent No. 6759200
; GENERAL INFORMATION:
; APPLICANT: Stanton, Jr., Vincent P.
; TITLE OF INVENTION: THYMIDINE PHOSPHORYLASE GENE SEQUENCE
; TITLE OF INVENTION: VARIANCES HAVING UTILITY IN DETERMINING
; TITLE OF INVENTION: THE TREATMENT OF DISEASE
; FILE REFERENCE: 11926-015003
; CURRENT APPLICATION NUMBER: US/09/962,677
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: 09/658,659
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: 09/596,033
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/357,743
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 09/357,024
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: 60/093,484
; PRIOR FILING DATE: 1998-07-20
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 7224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 194, 3209
; OTHER INFORMATION: n = c or g
; NAME/KEY: misc_feature
; LOCATION: 1136, 1334, 3150, 5551, 5934
; OTHER INFORMATION: n = a or g
; NAME/KEY: misc_feature
; LOCATION: 284, 1252, 1699, 5573, 5659, 5678, 5874
; OTHER INFORMATION: n = c or t
; NAME/KEY: misc_feature
; LOCATION: 3207
; OTHER INFORMATION: n = g or t
; NAME/KEY: misc_feature
; LOCATION: 5444
; OTHER INFORMATION: n = c or a
; US-09-963-333-1
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; LOCATION: 1136, 1334, 3150, 5551, 5934
; OTHER INFORMATION: n = a or g
; NAME/KEY: misc_feature
; LOCATION: 284, 1252, 1699, 5573, 5659, 5678, 5874
; OTHER INFORMATION: n = c or t
; NAME/KEY: misc_feature
; LOCATION: 3207
; OTHER INFORMATION: n = g or t
; NAME/KEY: misc_feature
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; OTHER INFORMATION: n = c or a
; US-09-962-677-1

Query Match          59.4%; Score 18.4; DB 3; Length 7224;
Best Local Similarity 78.6%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy      1 GGGTCTGTCTGGCTGGCTGGCTGCAAGGA 28
      ||||| ||||| ||||| ||||| |||||
Db      3943 GTGCTCGGCTGGCTGGGTAGCCAGGA 3916

RESULT 50
US-09-949-016-16361
; Sequence 16361, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16361
; LENGTH: 19085
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-16361

Query Match          59.4%; Score 18.4; DB 3; Length 19085;
Best Local Similarity 78.6%; Pred. No. 3.1e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Job time : 163.927 secs
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:01:19 ; Search time 593.071 Seconds  
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Perfect score: 31

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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- 10: /cgn2\_6/ptodata/1/pubpna/US11\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	29.4	94.8	2214	4	US-09-925-065A-675137 Sequence 675137,
3	27.8	89.7	96960	8	US-10-484-577-662 Sequence 662, App
4	27.4	88.4	177531	8	US-10-484-577-660 Sequence 660, App
5	23.6	76.1	1012	3	US-09-957-997-4 Sequence 4, Appli
6	23.6	76.1	1345	3	US-09-943-115A-1 Sequence 1, Appli
7	23.6	76.1	1345	5	US-10-146-575-3 Sequence 3, Appli
8	23.6	76.1	1345	5	US-10-085-612-3 Sequence 3, Appli
9	23.6	76.1	11186	3	US-09-957-997-1 Sequence 1, Appli
10	23.6	76.1	11186	9	US-10-415-607-4 Sequence 4, Appli
11	23.6	76.1	12983	9	US-10-415-607-1 Sequence 1, Appli
12	23.6	76.1	13035	6	US-10-121-960C-14 Sequence 14, Appl
13	23.6	76.1	15185	6	US-10-121-960C-17 Sequence 17, Appl
C 14	21	67.7	600	9	US-10-972-079-15888 Sequence 15888, A
15	21	67.7	660	4	US-09-925-065A-884295 Sequence 884295,
16	21	67.7	660	4	US-09-925-065A-910428 Sequence 910428,
17	21	67.7	1000	3	US-09-801-944B-89 Sequence 89, Appl
18	21	67.7	1000	3	US-09-801-944B-91 Sequence 91, Appl
C 19	21	67.7	2784	7	US-10-437-963-58919 Sequence 58919, A
20	21	67.7	8776	7	US-10-257-166-149 Sequence 149, App
C 21	20.6	66.5	638	4	US-09-925-065A-336101 Sequence 326101,
C 22	20.4	65.8	599	9	US-10-972-079-41080 Sequence 41080, A
23	20.4	65.8	635	8	US-10-425-115-106659 Sequence 106659,

24	20.4	65.8	1639	4	US-09-925-065A-550366 Sequence 550366, A
25	20	64.5	442	8	US-10-425-115-53309 Sequence 53309, A
C 26	20	64.5	1174	9	US-10-764-420-1618 Sequence 1618, Ap
27	19.8	63.9	300	9	US-10-779-543-3046 Sequence 3046, Ap
C 28	19.8	63.9	494	5	US-10-027-632-229750 Sequence 229750,
C 29	19.8	63.9	494	6	US-10-027-632-229750 Sequence 229750,
C 30	19.8	63.9	540	4	US-09-925-065A-144297 Sequence 144297,
C 31	19.8	63.9	618	4	US-09-925-065A-767592 Sequence 767592,
C 32	19.8	63.9	620	4	US-09-925-065A-833600 Sequence 833600,
C 33	19.8	63.9	4320	7	US-10-437-963-36342 Sequence 36342, A
34	19.8	63.9	6096	6	US-10-133-013-169 Sequence 169, App
35	19.4	62.6	600	9	US-10-972-079-73538 Sequence 73538, A
36	19.4	62.6	600	9	US-10-972-079-73539 Sequence 73539, A
37	19.4	62.6	600	9	US-10-972-079-73540 Sequence 73540, A
38	19.4	62.6	600	9	US-10-972-079-73541 Sequence 73541, A
C 39	19.4	62.6	890	5	US-10-027-632-9215 Sequence 9215, Ap
C 40	19.4	62.6	890	5	US-10-027-632-9216 Sequence 9216, Ap
C 41	19.4	62.6	890	6	US-10-027-632-9215 Sequence 9215, Ap
C 42	19.4	62.6	890	6	US-10-027-632-9216 Sequence 9216, Ap
43	19.4	62.6	893	5	US-10-027-632-9700 Sequence 9700, Ap
44	19.4	62.6	893	6	US-10-027-632-9700 Sequence 9700, Ap
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C 46	19.4	62.6	1245	6	US-10-027-632-124022 Sequence 124022,
C 47	19.4	62.6	1471	9	US-10-450-763-3430 Sequence 3430, Ap
48	19.4	62.6	1584	7	US-10-425-114-34692 Sequence 34692, A
49	19.4	62.6	2031	8	US-10-425-115-83173 Sequence 83173, A
50	19.4	62.6	608916	9	US-10-461-862-1 Sequence 1, Appli
51	19.4	62.6	653122	5	US-10-087-192-226 Sequence 226, App
52	19.2	61.9	2731748	7	US-10-297-465A-1 Sequence 1, Appli
53	19	61.3	413	7	US-10-767-701-16092 Sequence 16092, A
C 54	19	61.3	420	4	US-09-925-065A-229206 Sequence 229206,
55	19	61.3	647	8	US-10-425-115-106833 Sequence 106833,
C 56	19	61.3	4495	5	US-10-097-340-154 Sequence 154, App
C 57	19	61.3	4495	5	US-10-171-311-98 Sequence 98, Appl
C 58	19	61.3	4495	6	US-10-173-999-147 Sequence 147, App
C 59	19	61.3	4495	10	US-11-050-936-154 Sequence 154, App
C 60	19	61.3	4637	5	US-10-171-311-96 Sequence 96, Appl
C 61	19	61.3	4637	6	US-10-101-510-155 Sequence 155, App
C 62	19	61.3	4637	6	US-10-173-999-145 Sequence 145, App
C 63	19	61.3	4637	7	US-10-641-643-1138 Sequence 1138, Ap
C 64	19	61.3	4637	8	US-10-482-029-33 Sequence 33, Appl
C 65	19	61.3	4637	9	US-10-756-149-2578 Sequence 2578, Ap
C 66	19	61.3	65387	7	US-10-322-281-332 Sequence 332, App
C 67	19	61.3	76670	5	US-10-087-192-2050 Sequence 2050, Ap
C 68	18.8	60.6	243	8	US-10-674-124A-24398 Sequence 24398, A
C 69	18.8	60.6	495	4	US-09-925-065A-578798 Sequence 578798,
C 70	18.8	60.6	495	4	US-09-925-065A-578799 Sequence 578799,
C 71	18.8	60.6	511	7	US-10-152-319A-1326 Sequence 1326, Ap
72	18.8	60.6	520	5	US-10-027-632-248611 Sequence 248611,
73	18.8	60.6	520	6	US-10-027-632-248611 Sequence 248611,
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75	18.8	60.6	622	4	US-09-925-065A-569125 Sequence 569125,
C 76	18.8	60.6	694	8	US-10-425-115-141800 Sequence 141800,
C 77	18.8	60.6	828	6	US-10-369-493-36226 Sequence 36226, A
C 78	18.8	60.6	957	6	US-10-369-493-34621 Sequence 34621, A
79	18.8	60.6	1086	9	US-10-450-763-20571 Sequence 20571, A
80	18.8	60.6	1240	5	US-10-027-632-263693 Sequence 263693,
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83	18.8	60.6	1749	8	US-10-739-930-3472 Sequence 3472, Ap
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85	18.8	60.6	1920	4	US-09-925-065A-81407 Sequence 81407, A
86	18.8	60.6	1920	4	US-09-925-065A-81408 Sequence 81408, A
87	18.8	60.6	1970	4	US-09-925-065A-721388 Sequence 721388,
88	18.8	60.6	2074	6	US-10-297-023-38 Sequence 38, Appl
C 89	18.8	60.6	2144	4	US-09-925-065A-671272 Sequence 671272,
C 90	18.8	60.6	2693	5	US-10-125-237-82 Sequence 82, Appl
C 91	18.8	60.6	2693	5	US-10-105-891-82 Sequence 82, Appl
C 92	18.8	60.6	2693	3	US-10-972-024-81 Sequence 81, Appl
C 93	18.8	60.6	8489	3	US-09-821-725-3 Sequence 3, Appli
C 94	18.8	60.6	8489	6	US-10-293-861-3 Sequence 3, Appli
C 95	18.8	60.6	8489	10	US-11-052-924-3 Sequence 3, Appli
96	18.8	60.6	8943	7	US-10-257-166-47 Sequence 47, Appl

c	97	18.8	60.6	24001	7	US-10-299-089-4	Sequence 4, Appli	c 170	18.2	58.7	347	3	US-09-960-352-11697	Sequence 11697, A
	98	18.8	60.6	62805	6	US-10-379-381-3	Sequence 3, Appli	c 171	18.2	58.7	381	4	US-09-925-065A-274740	Sequence 274740, A
	99	18.6	60.0	532	4	US-09-925-065A-14378	Sequence 14378, A	c 172	18.2	58.7	381	4	US-09-925-065A-274741	Sequence 274741, A
	100	18.6	60.0	532	4	US-09-925-065A-14379	Sequence 14379, A	c 173	18.2	58.7	381	4	US-09-925-065A-274742	Sequence 274742, A
	101	18.6	60.0	565	4	US-09-925-065A-652277	Sequence 652277, A	c 174	18.2	58.7	393	3	US-09-864-761-31254	Sequence 31254, A
	102	18.6	60.0	565	4	US-09-925-065A-652278	Sequence 652278, A	c 175	18.2	58.7	417	5	US-10-238-443-13	Sequence 13, Appl
	103	18.6	60.0	565	4	US-09-925-065A-652279	Sequence 652279, A	c 176	18.2	58.7	417	5	US-10-309-362-13	Sequence 13, Appl
	104	18.6	60.0	600	9	US-10-972-079-93497	Sequence 93497, A	c 177	18.2	58.7	426	7	US-10-437-963-67176	Sequence 67176, A
	105	18.6	60.0	612	4	US-09-925-065A-772466	Sequence 772466, A	c 178	18.2	58.7	451	7	US-10-424-599-62618	Sequence 62618, A
	106	18.6	60.0	1334	8	US-10-739-930-3936	Sequence 1936, Ap	c 179	18.2	58.7	480	7	US-10-424-535A-56711	Sequence 56711, A
	107	18.6	60.0	3241	7	US-10-181-906-7	Sequence 7, Appli	c 180	18.2	58.7	480	7	US-10-085-783A-56711	Sequence 10020, A
	108	18.6	60.0	4390	5	US-10-225-567A-200	Sequence 200, Appl	c 181	18.2	58.7	481	3	US-09-864-761-10020	Sequence 10020, A
	109	18.6	60.0	4390	5	US-10-462-039-1	Sequence 1, Appli	c 182	18.2	58.7	511	8	US-10-425-115-105700	Sequence 105700, A
	110	18.6	60.0	4447	8	US-10-425-115-101304	Sequence 111304, A	c 183	18.2	58.7	512	3	US-09-864-761-14728	Sequence 14728, A
	111	18.6	60.0	33248	7	US-10-672-787-24	Sequence 24, Appl	c 184	18.2	58.7	513	3	US-09-864-761-7794	Sequence 7794, Ap
	112	18.6	60.0	156416	9	US-10-461-862-12	Sequence 12, Appl	c 185	18.2	58.7	517	5	US-10-027-632-133421	Sequence 133421, A
	113	18.4	59.4	502	5	US-10-027-632-104153	Sequence 104153, A	c 186	18.2	58.7	517	5	US-10-027-632-133422	Sequence 133422, A
	114	18.4	59.4	502	5	US-10-027-632-325051	Sequence 325051, A	c 187	18.2	58.7	517	6	US-10-027-632-133421	Sequence 133421, A
	115	18.4	59.4	502	6	US-10-027-632-104153	Sequence 104153, A	c 188	18.2	58.7	517	6	US-10-027-632-133422	Sequence 133422, A
	116	18.4	59.4	502	6	US-10-027-632-325051	Sequence 325051, A	c 189	18.2	58.7	531	7	US-10-437-963-96649	Sequence 96649, A
	117	18.4	59.4	567	5	US-10-027-632-17741	Sequence 17741, A	c 190	18.2	58.7	546	8	US-10-696-639-14	Sequence 14, Appl
	118	18.4	59.4	567	6	US-10-027-632-17741	Sequence 17741, A	c 191	18.2	58.7	561	8	US-10-425-115-84916	Sequence 84916, A
	119	18.4	59.4	595	4	US-09-925-065A-782995	Sequence 782995, A	c 192	18.2	58.7	565	3	US-09-864-761-14725	Sequence 14725, A
	120	18.4	59.4	641	4	US-09-925-065A-765932	Sequence 765932, A	c 193	18.2	58.7	566	4	US-09-925-065A-448267	Sequence 448267, A
	121	18.4	59.4	641	4	US-09-925-065A-765933	Sequence 765933, A	c 194	18.2	58.7	571	9	US-10-779-543-18476	Sequence 18476, A
	122	18.4	59.4	728	5	US-10-027-632-139325	Sequence 139325, A	c 195	18.2	58.7	572	5	US-10-027-632-140360	Sequence 140360, A
	123	18.4	59.4	728	5	US-10-027-632-139326	Sequence 139326, A	c 196	18.2	58.7	572	5	US-10-027-632-140361	Sequence 140361, A
	124	18.4	59.4	728	5	US-10-027-632-139327	Sequence 139327, A	c 197	18.2	58.7	572	6	US-10-027-632-140360	Sequence 140360, A
	125	18.4	59.4	728	5	US-10-027-632-139328	Sequence 139328, A	c 198	18.2	58.7	572	6	US-10-027-632-140361	Sequence 140361, A
	126	18.4	59.4	728	6	US-10-027-632-139325	Sequence 139325, A	c 199	18.2	58.7	573	4	US-09-925-065A-602322	Sequence 602322, A
	127	18.4	59.4	728	6	US-10-027-632-139326	Sequence 139326, A	c 200	18.2	58.7	588	3	US-09-864-761-12410	Sequence 12410, A
	128	18.4	59.4	728	6	US-10-027-632-139327	Sequence 139327, A	c 201	18.2	58.7	588	3	US-10-696-639-991	Sequence 991, App
	129	18.4	59.4	728	6	US-10-027-632-139328	Sequence 139328, A	c 202	18.2	58.7	604	8	US-10-027-632-47837	Sequence 47837, A
	130	18.4	59.4	745	5	US-10-027-632-11087	Sequence 11087, A	c 203	18.2	58.7	608	5	US-10-027-632-47838	Sequence 47838, A
	131	18.4	59.4	745	5	US-10-027-632-11088	Sequence 11088, A	c 204	18.2	58.7	608	6	US-10-027-632-47837	Sequence 47837, A
	132	18.4	59.4	745	6	US-10-027-632-11087	Sequence 11087, A	c 205	18.2	58.7	608	6	US-10-027-632-47838	Sequence 47838, A
	133	18.4	59.4	745	6	US-10-027-632-11088	Sequence 11088, A	c 206	18.2	58.7	613	4	US-09-925-065A-767984	Sequence 767984, A
	134	18.4	59.4	754	5	US-10-027-632-126726	Sequence 126726, A	c 207	18.2	58.7	615	5	US-10-027-632-79313	Sequence 79313, A
	135	18.4	59.4	754	5	US-10-027-632-126727	Sequence 126727, A	c 208	18.2	58.7	615	5	US-10-027-632-79314	Sequence 79314, A
	136	18.4	59.4	754	5	US-10-027-632-126728	Sequence 126728, A	c 209	18.2	58.7	615	5	US-10-027-632-81175	Sequence 81175, A
	137	18.4	59.4	754	5	US-10-027-632-126729	Sequence 126729, A	c 210	18.2	58.7	615	5	US-10-027-632-81176	Sequence 81176, A
	138	18.4	59.4	754	6	US-10-027-632-126726	Sequence 126726, A	c 211	18.2	58.7	615	6	US-10-027-632-79313	Sequence 79313, A
	139	18.4	59.4	754	6	US-10-027-632-126727	Sequence 126727, A	c 212	18.2	58.7	615	6	US-10-027-632-79314	Sequence 79314, A
	140	18.4	59.4	754	6	US-10-027-632-126728	Sequence 126728, A	c 213	18.2	58.7	615	6	US-10-027-632-81175	Sequence 81175, A
	141	18.4	59.4	754	6	US-10-027-632-126729	Sequence 126729, A	c 214	18.2	58.7	615	6	US-10-027-632-81176	Sequence 81176, A
	142	18.4	59.4	935	4	US-09-925-065A-55406	Sequence 55406, A	c 215	18.2	58.7	615	5	US-10-696-639-12	Sequence 12, Appl
	143	18.4	59.4	1231	4	US-09-925-065A-2260	Sequence 2260, Ap	c 216	18.2	58.7	627	5	US-10-338-443-11	Sequence 11, Appl
	144	18.4	59.4	1738	9	US-10-450-763-22192	Sequence 22192, A	c 217	18.2	58.7	627	5	US-10-309-362-11	Sequence 11, Appl
	145	18.4	59.4	1863	5	US-10-213-990-32	Sequence 32, Appl	c 218	18.2	58.7	628	7	US-10-424-599-65574	Sequence 65574, A
	146	18.4	59.4	1977	5	US-10-213-990-31	Sequence 31, Appl	c 219	18.2	58.7	635	4	US-09-925-065A-580023	Sequence 580023, A
	147	18.4	59.4	3856	7	US-10-607-712-75	Sequence 75, Appl	c 220	18.2	58.7	677	8	US-10-425-115-152236	Sequence 152236, A
	148	18.4	59.4	3919	7	US-10-607-712-1	Sequence 1, Appli	c 221	18.2	58.7	706	6	US-10-131-487A-15	Sequence 10433, A
	149	18.4	59.4	4887	8	US-10-437-963-86357	Sequence 284, App	c 222	18.2	58.7	713	3	US-09-946-374-7	Sequence 7, Appli
	150	18.4	59.4	7243	6	US-10-335-053-294	Sequence 294, App	c 223	18.2	58.7	713	3	US-10-052-586-125	Sequence 125, App
	151	18.4	59.4	28000	6	US-10-091-625-11	Sequence 11, Appl	c 224	18.2	58.7	724	6	US-10-172-118-1993	Sequence 1993, Ap
	152	18.4	59.4	28000	6	US-10-096-399A-11	Sequence 11, Appl	c 225	18.2	58.7	724	7	US-10-342-887-11993	Sequence 1993, Ap
	153	18.4	59.4	28000	6	US-10-461-668-11	Sequence 11, Appl	c 226	18.2	58.7	736	3	US-09-814-353-4127	Sequence 4127, Ap
	154	18.4	59.4	28000	6	US-10-388-263-381	Sequence 381, App	c 227	18.2	58.7	736	3	US-09-814-353-10433	Sequence 10433, A
	155	18.4	59.4	42547	6	US-10-268-822-12	Sequence 12, Appl	c 228	18.2	58.7	756	5	US-10-052-586-125	Sequence 125, App
	156	18.4	59.4	71132	5	US-10-087-192-1867	Sequence 1867, Ap	c 229	18.2	58.7	756	5	US-10-174-590-125	Sequence 125, App
	157	18.4	59.4	72821	9	US-10-461-862-149	Sequence 149, App	c 230	18.2	58.7	756	5	US-10-176-758-125	Sequence 125, App
	158	18.4	59.4	148083	9	US-10-756-149-4571	Sequence 4571, Ap	c 231	18.2	58.7	756	5	US-10-175-737-125	Sequence 125, App
	159	18.4	59.4	185695	5	US-10-020-141-11	Sequence 11, Appl	c 232	18.2	58.7	756	5	US-10-174-581-125	Sequence 125, App
	160	18.4	59.4	185695	5	US-10-017-721-1	Sequence 1, Appli	c 233	18.2	58.7	756	5	US-10-176-483-125	Sequence 125, App
	161	18.4	59.4	195071	8	US-10-741-600-17991	Sequence 17991, A	c 234	18.2	58.7	756	5	US-10-176-749-125	Sequence 125, App
	162	18.4	59.4	212521	7	US-10-398-221-6	Sequence 6, Appli	c 235	18.2	58.7	756	5	US-10-176-914-125	Sequence 125, App
	163	18.4	59.4	246144	6	US-10-085-117-226	Sequence 226, App	c 236	18.2	58.7	756	5	US-10-176-915-125	Sequence 125, App
	164	18.4	59.4	3011208	7	US-10-398-221-2058	Sequence 2058, Ap	c 237	18.2	58.7	756	5	US-10-173-706-125	Sequence 125, App
	165	18.2	58.7	160	8	US-10-425-115-5845	Sequence 5845, Ap	c 238	18.2	58.7	756	5	US-10-175-738-125	Sequence 125, App
	166	18.2	58.7	235	3	US-09-864-761-31257	Sequence 31257, A	c 239	18.2	58.7	756	5	US-10-175-752-125	Sequence 125, App
	167	18.2	58.7	306	3	US-09-864-761-28988	Sequence 28988, A	c 240	18.2	58.7	756	5	US-10-176-482-125	Sequence 125, App
	168	18.2	58.7	320	4	US-09-925-065A-651506	Sequence 651506, A	c 241	18.2	58.7	756	5	US-10-176-757-125	Sequence 125, App
	169	18.2	58.7	320	4	US-09-925-065A-651507	Sequence 651507, A	c 242	18.2	58.7	756	5	US-10-176-913-125	Sequence 125, App







535	18.2	58.7	756	5	US-10-192-012-125	Sequence 125, App	608	18.2	58.7	756	5	US-10-207-919-125	Sequence 125, App
536	18.2	58.7	756	5	US-10-192-014-125	Sequence 125, App	609	18.2	58.7	756	5	US-10-207-920-125	Sequence 125, App
537	18.2	58.7	756	5	US-10-192-016-125	Sequence 125, App	610	18.2	58.7	756	5	US-10-207-925-125	Sequence 125, App
538	18.2	58.7	756	5	US-10-194-362-125	Sequence 125, App	611	18.2	58.7	756	5	US-10-208-021-125	Sequence 125, App
539	18.2	58.7	756	5	US-10-194-364-125	Sequence 125, App	612	18.2	58.7	756	5	US-10-208-022-125	Sequence 125, App
540	18.2	58.7	756	5	US-10-194-395-125	Sequence 125, App	613	18.2	58.7	756	5	US-10-208-023-125	Sequence 125, App
541	18.2	58.7	756	5	US-10-194-424-125	Sequence 125, App	614	18.2	58.7	756	5	US-10-208-026-125	Sequence 125, App
542	18.2	58.7	756	5	US-10-194-458-125	Sequence 125, App	615	18.2	58.7	756	5	US-10-208-029-125	Sequence 125, App
543	18.2	58.7	756	5	US-10-194-459-125	Sequence 125, App	616	18.2	58.7	756	5	US-10-208-030-125	Sequence 125, App
544	18.2	58.7	756	5	US-10-194-488-125	Sequence 125, App	617	18.2	58.7	756	5	US-10-015-393A-7	Sequence 7, Appl1
545	18.2	58.7	756	5	US-10-195-886-125	Sequence 125, App	618	18.2	58.7	756	5	US-10-232-232-125	Sequence 125, App
546	18.2	58.7	756	5	US-10-195-891-125	Sequence 125, App	619	18.2	58.7	756	5	US-10-195-898-125	Sequence 125, App
547	18.2	58.7	756	5	US-10-196-746-125	Sequence 125, App	620	18.2	58.7	756	5	US-10-196-759-125	Sequence 125, App
548	18.2	58.7	756	5	US-10-196-752-125	Sequence 125, App	621	18.2	58.7	756	5	US-10-015-869A-7	Sequence 7, Appl1
549	18.2	58.7	756	5	US-10-196-753-125	Sequence 125, App	622	18.2	58.7	756	5	US-10-173-693-125	Sequence 125, App
550	18.2	58.7	756	5	US-10-197-692-125	Sequence 125, App	623	18.2	58.7	756	5	US-10-174-578-125	Sequence 125, App
551	18.2	58.7	756	5	US-10-197-711-125	Sequence 125, App	624	18.2	58.7	756	5	US-10-175-741-125	Sequence 125, App
552	18.2	58.7	756	5	US-10-197-693-125	Sequence 125, App	625	18.2	58.7	756	5	US-10-175-750-125	Sequence 125, App
553	18.2	58.7	756	5	US-10-197-696-125	Sequence 125, App	626	18.2	58.7	756	5	US-10-176-986-125	Sequence 125, App
554	18.2	58.7	756	5	US-10-197-698-125	Sequence 125, App	627	18.2	58.7	756	5	US-10-184-641-125	Sequence 125, App
555	18.2	58.7	756	5	US-10-197-703-125	Sequence 125, App	628	18.2	58.7	756	5	US-10-187-888-125	Sequence 125, App
556	18.2	58.7	756	5	US-10-197-711-125	Sequence 125, App	629	18.2	58.7	756	5	US-10-194-360-125	Sequence 125, App
557	18.2	58.7	756	5	US-10-198-757-125	Sequence 125, App	630	18.2	58.7	756	5	US-10-194-365-125	Sequence 125, App
558	18.2	58.7	756	5	US-10-198-761-125	Sequence 125, App	631	18.2	58.7	756	5	US-10-195-895-125	Sequence 125, App
559	18.2	58.7	756	5	US-10-198-762-125	Sequence 125, App	632	18.2	58.7	756	5	US-10-199-302-125	Sequence 125, App
560	18.2	58.7	756	5	US-10-198-763-125	Sequence 125, App	633	18.2	58.7	756	5	US-10-201-323-125	Sequence 125, App
561	18.2	58.7	756	5	US-10-198-767-125	Sequence 125, App	634	18.2	58.7	756	5	US-10-205-510-125	Sequence 125, App
562	18.2	58.7	756	5	US-10-199-301-125	Sequence 125, App	635	18.2	58.7	756	5	US-10-205-891-125	Sequence 125, App
563	18.2	58.7	756	5	US-10-199-307-125	Sequence 125, App	636	18.2	58.7	756	5	US-10-206-917-125	Sequence 125, App
564	18.2	58.7	756	5	US-10-199-312-125	Sequence 125, App	637	18.2	58.7	756	5	US-10-207-923-125	Sequence 125, App
565	18.2	58.7	756	5	US-10-199-315-125	Sequence 125, App	638	18.2	58.7	756	5	US-10-207-924-125	Sequence 125, App
566	18.2	58.7	756	5	US-10-199-316-125	Sequence 125, App	639	18.2	58.7	756	5	US-10-208-028-125	Sequence 125, App
567	18.2	58.7	756	5	US-10-199-457-125	Sequence 125, App	640	18.2	58.7	756	5	US-10-012-121A-7	Sequence 7, Appl1
568	18.2	58.7	756	5	US-10-199-459-125	Sequence 125, App	641	18.2	58.7	756	5	US-10-205-904-125	Sequence 125, App
569	18.2	58.7	756	5	US-10-199-460-125	Sequence 125, App	642	18.2	58.7	756	5	US-10-175-753-125	Sequence 125, App
570	18.2	58.7	756	5	US-10-199-461-125	Sequence 125, App	643	18.2	58.7	756	5	US-10-180-553-125	Sequence 125, App
571	18.2	58.7	756	5	US-10-199-667-125	Sequence 125, App	644	18.2	58.7	756	5	US-10-201-327-125	Sequence 125, App
572	18.2	58.7	756	5	US-10-199-673-125	Sequence 125, App	645	18.2	58.7	756	5	US-10-121-062-125	Sequence 125, App
573	18.2	58.7	756	5	US-10-201-321-125	Sequence 125, App	646	18.2	58.7	756	5	US-10-006-116A-7	Sequence 7, Appl1
574	18.2	58.7	756	5	US-10-201-322-125	Sequence 125, App	647	18.2	58.7	756	5	US-10-006-117A-7	Sequence 7, Appl1
575	18.2	58.7	756	5	US-10-201-326-125	Sequence 125, App	648	18.2	58.7	756	5	US-10-017-527A-7	Sequence 7, Appl1
576	18.2	58.7	756	5	US-10-201-532-125	Sequence 125, App	649	18.2	58.7	756	5	US-10-183-003-125	Sequence 125, App
577	18.2	58.7	756	5	US-10-201-533-125	Sequence 125, App	650	18.2	58.7	756	5	US-10-183-016-125	Sequence 125, App
578	18.2	58.7	756	5	US-10-201-535-125	Sequence 125, App	651	18.2	58.7	756	5	US-10-173-696-125	Sequence 125, App
579	18.2	58.7	756	5	US-10-201-769-125	Sequence 125, App	652	18.2	58.7	756	5	US-10-013-913A-7	Sequence 7, Appl1
580	18.2	58.7	756	5	US-10-201-771-125	Sequence 125, App	653	18.2	58.7	756	5	US-10-125-923A-125	Sequence 125, App
581	18.2	58.7	756	5	US-10-201-854-125	Sequence 125, App	654	18.2	58.7	756	5	US-10-176-491-125	Sequence 125, App
582	18.2	58.7	756	5	US-10-202-410-125	Sequence 125, App	655	18.2	58.7	756	5	US-10-176-978-125	Sequence 125, App
583	18.2	58.7	756	5	US-10-202-473-125	Sequence 125, App	656	18.2	58.7	756	5	US-10-187-592-125	Sequence 125, App
584	18.2	58.7	756	5	US-10-202-474-125	Sequence 125, App	657	18.2	58.7	756	5	US-10-007-194A-7	Sequence 7, Appl1
585	18.2	58.7	756	5	US-10-205-503-125	Sequence 125, App	658	18.2	58.7	756	5	US-10-197-691-125	Sequence 125, App
586	18.2	58.7	756	5	US-10-205-512-125	Sequence 125, App	659	18.2	58.7	756	5	US-10-198-771-125	Sequence 125, App
587	18.2	58.7	756	5	US-10-205-892-125	Sequence 125, App	660	18.2	58.7	756	5	US-10-013-430A-7	Sequence 7, Appl1
588	18.2	58.7	756	5	US-10-205-894-125	Sequence 125, App	661	18.2	58.7	756	5	US-10-174-578A-125	Sequence 125, App
589	18.2	58.7	756	5	US-10-205-896-125	Sequence 125, App	662	18.2	58.7	756	5	US-10-179-520-125	Sequence 125, App
590	18.2	58.7	756	5	US-10-205-898-125	Sequence 125, App	663	18.2	58.7	756	5	US-10-201-325-125	Sequence 125, App
591	18.2	58.7	756	5	US-10-205-901-125	Sequence 125, App	664	18.2	58.7	756	5	US-10-202-941-125	Sequence 125, App
592	18.2	58.7	756	5	US-10-205-903-125	Sequence 125, App	665	18.2	58.7	756	5	US-10-205-910-125	Sequence 125, App
593	18.2	58.7	756	5	US-10-206-909-125	Sequence 125, App	666	18.2	58.7	756	5	US-10-011-671A-7	Sequence 7, Appl1
594	18.2	58.7	756	5	US-10-206-910-125	Sequence 125, App	667	18.2	58.7	756	5	US-10-012-755A-7	Sequence 7, Appl1
595	18.2	58.7	756	5	US-10-206-911-125	Sequence 125, App	668	18.2	58.7	756	5	US-10-015-386A-7	Sequence 7, Appl1
596	18.2	58.7	756	5	US-10-206-912-125	Sequence 125, App	669	18.2	58.7	756	5	US-10-179-526-125	Sequence 125, App
597	18.2	58.7	756	5	US-10-206-913-125	Sequence 125, App	670	18.2	58.7	756	5	US-10-173-701-125	Sequence 125, App
598	18.2	58.7	756	5	US-10-206-914-125	Sequence 125, App	671	18.2	58.7	756	5	US-10-179-511-125	Sequence 125, App
599	18.2	58.7	756	5	US-10-206-920-125	Sequence 125, App	672	18.2	58.7	756	5	US-10-179-518-125	Sequence 125, App
600	18.2	58.7	756	5	US-10-206-921-125	Sequence 125, App	673	18.2	58.7	756	5	US-10-183-018-125	Sequence 125, App
601	18.2	58.7	756	5	US-10-206-923-125	Sequence 125, App	674	18.2	58.7	756	5	US-10-184-624-125	Sequence 125, App
602	18.2	58.7	756	5	US-10-206-925-125	Sequence 125, App	675	18.2	58.7	756	5	US-10-184-657-125	Sequence 125, App
603	18.2	58.7	756	5	US-10-206-926-125	Sequence 125, App	676	18.2	58.7	756	5	US-10-197-701-125	Sequence 125, App
604	18.2	58.7	756	5	US-10-206-927-125	Sequence 125, App	677	18.2	58.7	756	5	US-10-197-706-125	Sequence 125, App
605	18.2	58.7	756	5	US-10-207-916-125	Sequence 125, App	678	18.2	58.7	756	5	US-10-201-857-125	Sequence 125, App
606	18.2	58.7	756	5	US-10-207-917-125	Sequence 125, App	679	18.2	58.7	756	5	US-10-202-413-125	Sequence 125, App
607	18.2	58.7	756	5	US-10-207-918-125	Sequence 125, App	680	18.2	58.7	756	5	US-10-202-938-125	Sequence 125, App

681	18.2	58.7	756	5	US-10-202-940-125	Sequence 125, App	754	18.2	58.7	756	6	US-10-176-983-125	Sequence 125, App
682	18.2	58.7	756	5	US-10-205-508-125	Sequence 125, App	755	18.2	58.7	756	6	US-10-176-988-125	Sequence 125, App
683	18.2	58.7	756	5	US-10-205-905-125	Sequence 125, App	756	18.2	58.7	756	6	US-10-179-517-125	Sequence 125, App
684	18.2	58.7	756	5	US-10-206-918-125	Sequence 125, App	757	18.2	58.7	756	6	US-10-179-521-125	Sequence 125, App
685	18.2	58.7	756	5	US-10-208-025-125	Sequence 125, App	758	18.2	58.7	756	6	US-10-017-867A-7	Sequence 7, Appli
686	18.2	58.7	756	5	US-10-011-692A-7	Sequence 7, Appli	759	18.2	58.7	756	6	US-10-012-064A-7	Sequence 7, Appli
687	18.2	58.7	756	5	US-10-006-768A-7	Sequence 7, Appli	760	18.2	58.7	756	6	US-10-202-475-125	Sequence 125, App
688	18.2	58.7	756	5	US-10-017-610A-7	Sequence 7, Appli	761	18.2	58.7	756	6	US-10-013-909A-7	Sequence 7, Appli
689	18.2	58.7	756	5	US-10-198-760-125	Sequence 125, App	762	18.2	58.7	756	6	US-10-015-671A-7	Sequence 7, Appli
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693	18.2	58.7	756	6	US-10-184-613-125	Sequence 125, App	766	18.2	58.7	756	6	US-10-012-754A-7	Sequence 7, Appli
694	18.2	58.7	756	6	US-10-187-739-125	Sequence 125, App	767	18.2	58.7	756	6	US-10-013-910A-7	Sequence 7, Appli
695	18.2	58.7	756	6	US-10-206-907-125	Sequence 125, App	768	18.2	58.7	756	6	US-10-013-911A-7	Sequence 7, Appli
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697	18.2	58.7	756	6	US-10-183-009-125	Sequence 125, App	770	18.2	58.7	756	6	US-10-015-653A-7	Sequence 7, Appli
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741	18.2	58.7	756	6	US-10-179-512-125	Sequence 125, App	814	18.2	58.7	756	9	US-10-180-554-125	Sequence 125, App
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744	18.2	58.7	756	6	US-10-015-392A-7	Sequence 7, Appli	817	18.2	58.7	781	3	US-09-823-245A-245	Sequence 245, App
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751	18.2	58.7	756	6	US-10-176-490-125	Sequence 125, App	824	18.2	58.7	866	6	US-10-131-487A-148	Sequence 148, App
752	18.2	58.7	756	6	US-10-176-752-125	Sequence 125, App	825	18.2	58.7	871	3	US-09-809-391-104	Sequence 104, App
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974 18 58.1 42450 8 US-10-785-106-3 Sequence 3, Appli
975 18 58.1 48244 7 US-10-052-482-166 Sequence 166, App
976 18 58.1 49380 10 US-11-097-143-14998 Sequence 14998, A
977 18 58.1 53224 8 US-10-331-053-76 Sequence 76, Appli
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979 18 58.1 88624 7 US-10-608-397-1 Sequence 1, Appli
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981 18 58.1 115756 9 US-10-756-149-3838 Sequence 3838, Ap
982 18 58.1 124990 8 US-10-684-422-156 Sequence 156, App
983 18 58.1 231914 8 US-10-741-600-17654 Sequence 17654, A
984 18 58.1 303172 8 US-10-719-993-6890 Sequence 6890, Ap
985 18 58.1 382256 9 US-10-820-226-1 Sequence 1, Appli
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987 18 58.1 430442 8 US-10-417-375-128 Sequence 128, App
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990 17.8 57.4 201 8 US-10-719-993-1939 Sequence 1939, Ap
991 17.8 57.4 201 8 US-10-719-993-1958 Sequence 1958, Ap
992 17.8 57.4 201 8 US-10-719-993-12610 Sequence 12610, A
993 17.8 57.4 201 8 US-10-719-993-12652 Sequence 12652, A
994 17.8 57.4 201 8 US-10-741-600-21159 Sequence 21159, A
995 17.8 57.4 260 9 US-10-911-704-414 Sequence 414, App
996 17.8 57.4 261 3 US-09-837-867A-29 Sequence 29, Appl
997 17.8 57.4 261 3 US-09-962-969-29 Sequence 29, Appl
998 17.8 57.4 261 8 US-10-643-768-29 Sequence 29, Appl
999 17.8 57.4 309 7 US-10-437-963-95144 Sequence 95144, A
1000 17.8 57.4 320 4 US-09-925-065A-651505 Sequence 651505,

ALIGNMENTS

RESULT 1
US-10-085-612-4
; Sequence 4, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR FILING DATE: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-4
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Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-09-925-065A-675137
; Sequence 675137, Application US/09925065A
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 675137
; LENGTH: 2214
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-675137
Query Match 94.8%; Score 29.4; DB 4; Length 2214;
Best Local Similarity 96.8%; Pred. No. 0.01;
Matches 30; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 652 GGGGTCGTCTGGCTGGCTTGCAGGATGT 682

RESULT 3
US-10-484-577-662
; Sequence 662, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGTL1A
; FILE REFERENCE: P2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 662
; LENGTH: 96960
; TYPE: DNA
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US-10-484-577-662
Query Match 89.7%; Score 27.8; DB 8; Length 96960;
Best Local Similarity 93.5%; Pred. No. 0.045;
Matches 29; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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RESULT 4
US-10-484-577-660
; Sequence 660, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
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ALIGNMENTS

RESULT 1
US-10-085-612-4
; Sequence 4, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR FILING DATE: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-4
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Best Local Similarity 100.0%; Pred. No. 0.0021;
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RESULT 2
US-09-925-065A-675137
; Sequence 675137, Application US/09925065A
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 675137
; LENGTH: 2214
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-675137
Query Match 94.8%; Score 29.4; DB 4; Length 2214;
Best Local Similarity 96.8%; Pred. No. 0.01;
Matches 30; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 3
US-10-484-577-662
; Sequence 662, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGTL1A
; FILE REFERENCE: P2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 662
; LENGTH: 96960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-662
Query Match 89.7%; Score 27.8; DB 8; Length 96960;
Best Local Similarity 93.5%; Pred. No. 0.045;
Matches 29; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGGCTGGCTTGCAGGATGT 31
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Db 93018 GGGGTCGTCTGTCTGGCTTGGAGGATGT 93048

RESULT 4
US-10-484-577-660
; Sequence 660, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
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; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A
; FILE REFERENCE: F2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 660
; LENGTH: 177531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-660

Query Match      88.4%; Score 27.4; DB 8; Length 177531;
Best Local Similarity 96.6%; Pred. No. 0.065;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGGCTGGCTGCAAGGAT 29
Db 15423 GGGCTCTGCTGGCTGGCTGGCTGGAAGGAT 15451

RESULT 5
US-09-957-997-4
; Sequence 4, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-957-997-4

Query Match      76.1%; Score 23.6; DB 3; Length 1012;
Best Local Similarity 86.7%; Pred. No. 3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGCTCTGCTGGCTGGCTGGCTGCAAGGATGT 31
Db 591 GGGCTCTGCTGGCTGGCTGGCTGGAAGGATGT 620

RESULT 6
US-09-943-115A-1
; Sequence 1, Application US/09943115A
; Publication No. US20030017469A1
; GENERAL INFORMATION:
; APPLICANT: SEQUENOM, Inc.
; APPLICANT: Rieinger, Carl
; APPLICANT: Andersson, Maria
; APPLICANT: Lewander, Tommy
; APPLICANT: Olafsson, Erik
; TITLE OF INVENTION: DETECTION OF CYP3A4 AND CYP2C9
; TITLE OF INVENTION: POLYMORPHISMS
```

```
; FILE REFERENCE: 52459-20021.00
; CURRENT APPLICATION NUMBER: US/09/943,115A
; CURRENT FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: UK 0021286.0
; PRIOR FILING DATE: 2000-08-30
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-943-115A-1

Query Match      76.1%; Score 23.6; DB 3; Length 1345;
Best Local Similarity 86.7%; Pred. No. 3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGCTCTGCTGGCTGGCTGGCTGCAAGGATGT 31
Db 668 GGGCTCTGCTGGCTGGCTGGCTGGAAGGATGT 697

RESULT 7
US-10-146-575-3
; Sequence 3, Application US/10146575
; Publication No. US20030059800A1
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/10/146,575
; CURRENT FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: US/09/144,367
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
US-10-146-575-3

Query Match      76.1%; Score 23.6; DB 5; Length 1345;
Best Local Similarity 86.7%; Pred. No. 3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GGGCTCTGCTGGCTGGCTGGCTGCAAGGATGT 31
Db 668 GGGCTCTGCTGGCTGGCTGGCTGGAAGGATGT 697

RESULT 8
US-10-085-612-3
; Sequence 3, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; TITLE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
```



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; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-3

Query Match      76.1%; Score 23.6; DB 5; Length 1345;
Best Local Similarity 86.7%; Pred. No. 3;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31
Db      668 GGGTCTGTCTGGCTGGCTTGCAGGATGT 697

RESULT 9
US-09-957-997-1
; Sequence 1, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; EARLIER FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-957-997-1

Query Match      76.1%; Score 23.6; DB 3; Length 11186;
Best Local Similarity 86.7%; Pred. No. 2.8;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31
Db      10708 GGGTCTGTCTGGCTGGCTTGCAGGATGT 10737

RESULT 10
US-10-415-607-4
; Sequence 4, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
; FILE REFERENCE: A-72251/RFT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-4

Query Match      76.1%; Score 23.6; DB 9; Length 11186;
Best Local Similarity 86.7%; Pred. No. 2.8;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31
Db      10708 GGGTCTGTCTGGCTGGCTTGCAGGATGT 10737

RESULT 11
US-10-415-607-1
; Sequence 1, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
; FILE REFERENCE: A-72251/RFT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 12983
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-1

Query Match      76.1%; Score 23.6; DB 9; Length 12983;
Best Local Similarity 86.7%; Pred. No. 2.8;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31
Db      12491 GGGTCTGTCTGGCTGGCTTGCAGGATGT 12520

RESULT 12
US-10-121-960C-14
; Sequence 14, Application US/10121960C
; Publication No. US20030145341A1
; GENERAL INFORMATION:
; APPLICANT: ZHANG, Weisheng
; APPLICANT: CONTAG, Pamela
; APPLICANT: PURCHIO, Anthony
; APPLICANT: HASHIMA, Sandy
; APPLICANT: MA, Shirley
; APPLICANT: NAWOTKA, Kevin
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH
; FILE REFERENCE: 9400-0014 / PXE-014.US
; CURRENT APPLICATION NUMBER: US/10/121,960C
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 14
; LENGTH: 13035
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: human CYP3A4 gene locus
US-10-121-960C-14

Query Match      76.1%; Score 23.6; DB 6; Length 13035;
Best Local Similarity 86.7%; Pred. No. 2.8;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 GGGTCTGTCTGGCTGGCTTGCAGGATGT 31

```



Db  
12493 GGCTCTGTCTGTCTGGTTTGGAAGGATGT 12522

```

RESULT 13
US-10-121-960C-17
; Sequence 17, Application US/10121960C
; Publication No. US20030145341A1
; GENERAL INFORMATION:
; APPLICANT: ZHANG, Weisheng
; APPLICANT: CONTAG, Pamela
; APPLICANT: PURCHIO, Anthony
; APPLICANT: HASHIMA, Sandy
; APPLICANT: MA, Shirley
; APPLICANT: NAWOTKA, Kevin
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH
; TITLE OF INVENTION: CYTOCHROME EXPRESSION
; FILE REFERENCE: 9400-0014 / PXE-014.US
; CURRENT APPLICATION NUMBER: US/10/121,960C
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 15185
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CYP3A4-luc transgene
US-10-121-960C-17

```

Query Match	76.1%	Score 23.6;	DB 6;	Length 15185;
Best Local Similarity	86.7%	Pred. No. 2.8;		
Matches 26;	Conservative	0;	Mismatches	4;
			Indels	0;
			Gaps	0;

**Qy**      2   GGCTGTGTCGGCTGGCGTTGCCAAGATGT   31  
         |||        |||||        |||||        |||||        |||||  
**Db**     12493   GGCTGTGTCGTCTGGGTTTGGAAAGATGT   12522

```

RESULT 14
US-10-972-079-15888/c
; Sequence 15888, Application US/10972079
; Publication No. US20050153317A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: ROSENFELD, David
; APPLICANT: KERR, Richard
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEEF
; TITLE OF INVENTION: LIVESTOCK
; FILE REFERENCE: WM1110-2
; CURRENT APPLICATION NUMBER: US/10/972,079
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 60/514,333
; PRIOR FILING DATE: 2003-10-24
; NUMBER OF SEQ ID NOS: 96631
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 15888
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Chicken 19866894222767_3
US-10-972-079-15888

```

Query Match 67.7%; Score 21; DB 9; Length 600;  
Best Local Similarity 82.8%;  
Pred. No. 38;  
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 3 GGTCTGCTGGCTGGCTTGCAAGGATGT 31

Db 547 GGCTGCCTGGCTGTACTTGAAGGATTT 519

```

RESULT 15
US-09-925-065A-884295
; Sequence 884295, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108927.135
; CURRENT APPLICATION NUMBER: US/09/925, 065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 884295
; LENGTH: 660
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-884295

```

Query Match	67.7%	Score 21;	DB 4;	Length 660;
Best Local Similarity	82.8%;	Pred. No. 38;		
Matches 24;	Conservative	0;	Mismatches	5; Indels 0; Gaps 0;

**Qy**            2   GGGTCTGTC TGGCTGGGCTTGCAAGGATG 30  
               ||         |         |         |         |         |  
**Dp**            346   GGTTCTGGCTGGCAGGGTTAGCAAGGATG 374

```

RESULT 16
US-09-925-065A-910428
; Sequence 910428, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 910428
; LENGTH: 660
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-910428

```

Query Match 67.7%; Score 21; DB 4; Length 660;  
Best Local Similarity 82.8%; Pred. No. 38;  
Matches 24; Conservative 0; Mismatches 5; Indels

Best local similarity	02.00	Area: 0.00
Matches	24; Conservative	0; Mismatches 5; Indels 0; Gaps 0;



; APPLICANT: BERLIN, Kurt  
; TITLE OF INVENTION: Method and Nucleic Acids for Analysing the Methylation of  
; FILE REFERENCE: 5013.1011  
; CURRENT APPLICATION NUMBER: US/10/257,166  
; CURRENT FILING DATE: 2002-10-07  
; PRIOR APPLICATION NUMBER: PCT/EP01/07470  
; DE 10032529.7  
; DE 10043826.1  
; PRIOR FILING DATE: 2001-06-29  
; 2000-06-30  
; 2000-09-01  
; NUMBER OF SEQ ID NOS: 178  
; SEQ ID NO 149  
; LENGTH: 8776  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-257-166-149

Query Match 67.7%; Score 21; DB 7; Length 8776;  
Best Local Similarity 82.8%; Pred. No. 36;  
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGGGCTTGCAGGAT 29  
|||||  
Db 4598 GGGGTTTGTGGTTGGTTGGATTTGGAAGGAT 4626

RESULT 21

US-09-925-065A-326101/c  
; Sequence 326101, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:

; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 326101  
; LENGTH: 638  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-326101

Query Match 66.5%; Score 20.6; DB 4; Length 638;  
Best Local Similarity 85.2%; Pred. No. 56;  
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 TCTGCTGGCTGGCTTGCAGGATGT 31  
|||||  
Db 575 TTTGGCTGGCTGGCTTCCAGGATGT 549

RESULT 22

US-10-972-079-41080/c  
; Sequence 41080, Application US/10972079  
; Publication No. US20050153317A1  
; GENERAL INFORMATION:

; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: ROSENFELD, David  
; APPLICANT: KERR, Richard  
; APPLICANT: BATES, Stephen  
; APPLICANT: HOLM, Tom  
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEEP

; TITLE OF INVENTION: LIVESTOCK  
; FILE REFERENCE: MM1110-2  
; CURRENT APPLICATION NUMBER: US/10/972,079  
; CURRENT FILING DATE: 2004-10-22  
; PRIOR APPLICATION NUMBER: US 60/514,333  
; PRIOR FILING DATE: 2003-10-24  
; NUMBER OF SEQ ID NOS: 96631  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 41080  
; LENGTH: 599  
; TYPE: DNA  
; ORGANISM: Chicken 19866894276366\_1

; FEATURE:  
; NAME/KEY: misc.feature  
; LOCATION: (1)-(156)  
; OTHER INFORMATION: n is any nucleotide  
US-10-972-079-41080

Query Match 65.8%; Score 20.4; DB 9; Length 599;  
Best Local Similarity 80.0%; Pred. No. 69;  
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGGGCTTGCAGGATG 30  
|||||  
Db 521 GGGGCTCTGCTCTCTGGCTGGCCAGGATG 492

RESULT 23

US-10-425-115-106659  
; Sequence 106659, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; TITLE OF INVENTION: Plants  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 106659  
; LENGTH: 635  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_28772C.1  
US-10-425-115-106659

Query Match 65.8%; Score 20.4; DB 8; Length 635;  
Best Local Similarity 80.0%; Pred. No. 69;  
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTCTGCTGGCTGGGCTTGCAGGATG 30  
|||||  
Db 397 GGAGTCGGCTGGATGGGCTTCCAGGACG 426

RESULT 24

US-09-925-065A-550366  
; Sequence 550366, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single

; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome

; FILE REFERENCE: 108827.135

; CURRENT APPLICATION NUMBER: US/09/925,065A

; CURRENT FILING DATE: 2001-08-08

; PRIOR APPLICATION NUMBER: US 60/243,096

; PRIOR FILING DATE: 2000-10-24

; PRIOR APPLICATION NUMBER: US 60/252,147

; PRIOR FILING DATE: 2000-11-20

; PRIOR APPLICATION NUMBER: US 60/250,092

; PRIOR FILING DATE: 2000-11-30

; PRIOR APPLICATION NUMBER: US 60/261,766

; PRIOR FILING DATE: 2001-01-16

; PRIOR APPLICATION NUMBER: US 60/289,846

; PRIOR FILING DATE: 2001-05-09

; NUMBER OF SEQ ID NOS: 957086

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 550366

; LENGTH: 1639

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-925-065A-550366

Query Match 65.8%; Score 20.4; DB 4; Length 1639;

Best Local Similarity 80.0%; Pred. No. 67;

Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCAGGATG 30

Db 149 GGGGTCTGCCAGGCTGGGCTGAGAGGATG 178

RESULT 25

US-10-425-115-53309

; Sequence 53309, Application US/10425115

; Publication No. US20040214272A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with

; FILE REFERENCE: 38-21(53222)B

; CURRENT APPLICATION NUMBER: US/10/425,115

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 369326

; SEQ ID NO 53309

; LENGTH: 442

; TYPE: DNA

; ORGANISM: Zea mays

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)..(442)

; OTHER INFORMATION: unsure at all n locations

; FEATURE:

; OTHER INFORMATION: Clone ID: MFT4577\_14861C.1

US-10-425-115-53309

Query Match

Best Local Similarity 64.5%; Score 20; DB 8; Length 442;

Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 2 GGGTCTCTGGCTGGCTTGCAGGATG 30

Db 325 GTGTCTGTAGCTTGCCTTGGAGGNTG 353

RESULT 26

US-10-764-420-1618/C

; Sequence 1618, Application US/10764420

; Publication No. US20050084872A1

; GENERAL INFORMATION:

; APPLICANT: Lum, Pek Yee

; APPLICANT: Tan, Yejun

; APPLICANT: Dai, Hongyue

; TITLE OF INVENTION: Methods For Determining Whether An Agent

; TITLE OF INVENTION: Possesses A Defined Biological Activity

; FILE REFERENCE: ROSA122057

; CURRENT APPLICATION NUMBER: US/10/764,420

; CURRENT FILING DATE: 2004-01-23

; PRIOR APPLICATION NUMBER: US 60/442,797

; PRIOR FILING DATE: 2003-01-24

; PRIOR APPLICATION NUMBER: US 60/474,413

; PRIOR FILING DATE: 2003-05-30

; NUMBER OF SEQ ID NOS: 3683

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1618

; LENGTH: 1174

; TYPE: DNA

; ORGANISM: Mus musculus

US-10-764-420-1618

Query Match 64.5%; Score 20; DB 9; Length 1174;

Best Local Similarity 82.1%; Pred. No. 1e+02;

Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCAGGA 28

Db 910 GGGCTCTGTCTTGTCTGGCATGCAGCGA 883

RESULT 27

US-10-779-543-3046

; Sequence 3046, Application US/10779543

; Publication No. US20050227917A1

; GENERAL INFORMATION:

; APPLICANT: Williams et al

; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED

; FILE REFERENCE: 2300-21302

; CURRENT APPLICATION NUMBER: US/10/779,543

; CURRENT FILING DATE: 2004-02-12

; PRIOR APPLICATION NUMBER: 10/076,555

; PRIOR FILING DATE: 2002-02-15

; PRIOR APPLICATION NUMBER: 09/217,471

; PRIOR FILING DATE: 1998-12-21

; PRIOR APPLICATION NUMBER: 60/068,755

; PRIOR FILING DATE: 1997-12-23

; PRIOR APPLICATION NUMBER: 60/080,664

; PRIOR FILING DATE: 1998-04-03

; PRIOR APPLICATION NUMBER: 60/105,234

; PRIOR FILING DATE: 1998-10-21

; PRIOR APPLICATION NUMBER: 09/297,648

; PRIOR FILING DATE: 2000-04-10

; PRIOR APPLICATION NUMBER: PCT/US99/01619

; PRIOR FILING DATE: 1999-01-28

; PRIOR APPLICATION NUMBER: 60/072,910

; PRIOR FILING DATE: 1998-01-28

; PRIOR APPLICATION NUMBER: 60/075,954

; PRIOR FILING DATE: 1998-02-24

; PRIOR APPLICATION NUMBER: 60/080,114

; PRIOR FILING DATE: 1998-03-31

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 23767

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3046

; LENGTH: 300

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-779-543-3046

Query Match

Best Local Similarity 63.9%; Score 19.8; DB 9; Length 300;

Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GGGGTCTGTCTGGCTGGCTTGCAGGATGT 31





; PRIOR APPLICATION NUMBER: US 60/514,333  
; PRIOR FILING DATE: 2003-10-24  
; NUMBER OF SEQ ID NOS: 96631  
; SOFTWARE: PatentIN version 3.1  
; SEQ ID NO 73538  
; LENGTH: 600  
; TYPE: DNA  
; ORGANISM: Chicken 19866894354785\_4  
US-10-972-079-73538

Query Match 62.6%; Score 19.4; DB 9; Length 600;  
Best Local Similarity 79.3%; Pred. No. 1.8e+02;  
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTGTCTGGCTGGGCTTGAAGGAT 29  
|||||  
Db 200 GGGCTCTGTCAAGCTCGGGCTCCAAGGAT 228

## RESULT 36

US-10-972-079-73539  
; Sequence 73539, Application US/10972079  
; Publication No. US20050153317A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: ROSENFELD, David  
; APPLICANT: KERR, Richard  
; APPLICANT: BATES, Stephen  
; APPLICANT: HOLM, Tom  
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEEF  
; FILE REFERENCE: MM1110-2  
; CURRENT APPLICATION NUMBER: US/10/972, 079  
; CURRENT FILING DATE: 2004-10-22  
; PRIOR APPLICATION NUMBER: US 60/514,333  
; PRIOR FILING DATE: 2003-10-24  
; NUMBER OF SEQ ID NOS: 96631  
; SOFTWARE: PatentIN version 3.1  
; SEQ ID NO 73539  
; LENGTH: 600  
; TYPE: DNA  
; ORGANISM: Chicken 19866894354785\_5  
US-10-972-079-73539

Query Match 62.6%; Score 19.4; DB 9; Length 600;  
Best Local Similarity 79.3%; Pred. No. 1.8e+02;  
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTGTCTGGCTGGGCTTGAAGGAT 29  
|||||  
Db 186 GGGCTCTGTCAAGCTCGGGCTCCAAGGAT 214

## RESULT 37

US-10-972-079-73540  
; Sequence 73540, Application US/10972079  
; Publication No. US20050153317A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: ROSENFELD, David  
; APPLICANT: KERR, Richard  
; APPLICANT: BATES, Stephen  
; APPLICANT: HOLM, Tom  
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEEF  
; FILE REFERENCE: MM1110-2  
; CURRENT APPLICATION NUMBER: US/10/972, 079  
; CURRENT FILING DATE: 2004-10-22  
; PRIOR APPLICATION NUMBER: US 60/514,333  
; PRIOR FILING DATE: 2003-10-24  
; NUMBER OF SEQ ID NOS: 96631

; SOFTWARE: PatentIN version 3.1  
; SEQ ID NO 73540  
; LENGTH: 600  
; TYPE: DNA  
; ORGANISM: Chicken 19866894354785\_6  
US-10-972-079-73540

Query Match 62.6%; Score 19.4; DB 9; Length 600;  
Best Local Similarity 79.3%; Pred. No. 1.8e+02;  
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTGTCTGGCTGGGCTTGAAGGAT 29  
|||||  
Db 170 GGGCTCTGTCAAGCTCGGGCTCCAAGGAT 198

## RESULT 38

US-10-972-079-73541  
; Sequence 73541, Application US/10972079  
; Publication No. US20050153317A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: ROSENFELD, David  
; APPLICANT: KERR, Richard  
; APPLICANT: BATES, Stephen  
; APPLICANT: HOLM, Tom  
; TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEEF  
; FILE REFERENCE: MM1110-2  
; CURRENT APPLICATION NUMBER: US/10/972, 079  
; CURRENT FILING DATE: 2004-10-22  
; PRIOR APPLICATION NUMBER: US 60/514,333  
; PRIOR FILING DATE: 2003-10-24  
; NUMBER OF SEQ ID NOS: 96631  
; SOFTWARE: PatentIN version 3.1  
; SEQ ID NO 73541  
; LENGTH: 600  
; TYPE: DNA  
; ORGANISM: Chicken 19866894354785\_7  
US-10-972-079-73541

Query Match 62.6%; Score 19.4; DB 9; Length 600;  
Best Local Similarity 79.3%; Pred. No. 1.8e+02;  
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGCTGTCTGGCTGGGCTTGAAGGAT 29  
|||||  
Db 15 GGGCTCTGTCAAGCTCGGGCTCCAAGGAT 43

## RESULT 39

US-10-027-632-9215/c  
; Sequence 9215, Application US/10027632  
; Publication No. US20020198371A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358

```
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9215
; LENGTH: 890
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9215

Query Match          62.6%; Score 19.4; DB 5; Length 890;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGCTGGCTGGCTTGCAGGAT 29
Db 728 GTGGTCTGCTGCTGCTGTTCTTGCACTGAT 700

RESULT 40
US-10-027-632-9216/c
; Sequence 9216, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9216
; LENGTH: 890
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9216

Query Match          62.6%; Score 19.4; DB 5; Length 890;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGCTGGCTGGCTTGCAGGAT 29
Db 728 GTGGTCTGCTGCTGCTGTTCTTGCACTGAT 700

RESULT 41
US-10-027-632-9215/c
; Sequence 9215, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
```

```
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9215
; LENGTH: 890
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9215

Query Match          62.6%; Score 19.4; DB 6; Length 890;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGCTGGCTGGCTTGCAGGAT 29
Db 728 GTGGTCTGCTGCTGCTGTTCTTGCACTGAT 700

RESULT 42
US-10-027-632-9216/c
; Sequence 9216, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9216
; LENGTH: 890
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9216

Query Match          62.6%; Score 19.4; DB 6; Length 890;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGGTCGTCTGCTGGCTGGCTTGCAGGAT 29
Db 728 GTGGTCTGCTGCTGCTGTTCTTGCACTGAT 700
```



```
RESULT 43
US-10-027-632-9700
; Sequence 9700, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9700
; LENGTH: 893
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9700

Query Match          62.6%; Score 19.4; DB 5; Length 893;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGCTGGCTTGCAGGAT 29
Db 347 GTGGTCTGTCTGTCTGCTTCTTGCACGTGAT 375

RESULT 44
US-10-027-632-9700
; Sequence 9700, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9700
; LENGTH: 893
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-9700

Query Match          62.6%; Score 19.4; DB 5; Length 893;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGCTGGCTTGCAGGAT 29
Db 347 GTGGTCTGTCTGTCTGCTTCTTGCACGTGAT 375

RESULT 45
US-10-027-632-124022/c
; Sequence 124022, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124022
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-124022/c

Query Match          62.6%; Score 19.4; DB 5; Length 1245;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGCTGGCTTGCAGGATG 30
Db 184 GGGTCTGTCTGCTGTGCTGGCAATGATG 156

RESULT 46
US-10-027-632-124022/c
; Sequence 124022, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
```

```
US-10-027-632-9700

Query Match          62.6%; Score 19.4; DB 6; Length 893;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGTCTGTCTGCTGGCTTGCAGGAT 29
Db 347 GTGGTCTGTCTGTCTGCTTCTTGCACGTGAT 375

RESULT 45
US-10-027-632-124022/c
; Sequence 124022, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124022
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-124022/c

Query Match          62.6%; Score 19.4; DB 5; Length 1245;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGCTGGCTTGCAGGATG 30
Db 184 GGGTCTGTCTGCTGTGCTGGCAATGATG 156

RESULT 46
US-10-027-632-124022/c
; Sequence 124022, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
```

```
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 124022
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-124022

Query Match          62.6%; Score 19.4; DB 6; Length 1245;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY  2 GGCTCTGCTGGCTGGCTGCAAGGATG 30
    ||||| ||| ||| ||||| |||
Db  184 GGCTCTGTGTCATGTGCTGCAATGATG 156
```

```
RESULT 47
US-10-450-763-3430/c
; Sequence 3430, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hveeq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 3430
; LENGTH: 1471
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (1141)..(908)
; OTHER INFORMATION: 41% homologous to Oryza sativa DNA binding protein, accession
; OTHER INFORMATION: number X88799, Smith-Waterman Score=115.
US-10-450-763-3430

Query Match          62.6%; Score 19.4; DB 9; Length 1471;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY  3 GGCTCTGCTGGCTGGCTGCAAGGATG 31
    ||||| ||||| ||||| ||||| |||||
Db  423 GGCTCATGCTGAGGTTGCCAGGATGT 395
```

```
RESULT 48
US-10-425-114-34692
; Sequence 34692, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
```

```
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 34692
; LENGTH: 1984
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLMO17299H10_FLI
US-10-425-114-34692
```

```
Query Match          62.6%; Score 19.4; DB 7; Length 1984;
Best Local Similarity 79.3%; Pred. No. 1.8e+02;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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; Sequence 83173, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 83173
; LENGTH: 2031
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_17586C.1
US-10-425-115-83173
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Query Match          62.6%; Score 19.4; DB 8; Length 2031;
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; Sequence 1, Application US/10461862
; Publication No. US2005090434A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc S. Malandro
; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
; FILE REFERENCE: 52945201800
; CURRENT APPLICATION NUMBER: US/10/461,862
; CURRENT FILING DATE: 2003-06-13
; NUMBER OF SEQ ID NOS: 184
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; LENGTH: 608916
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; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(608916)
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; OTHER INFORMATION: n = A,T,C or G  
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Search completed: January 11, 2006, 04:38:29  
Job time : 628.071 secs

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:06:24 ; Search time 629.707 Seconds  
(without alignments)  
39.844 Million cell updates/sec

Title: US-09-869-169C-19\_COPY\_850\_880

Perfect score: 31

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Scoring table: IDENTITY NUC

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Searched: 6038814 seqs, 404674181 residues

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Post-processing: Minimum Match 0%

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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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6	18.4	59.4	1572	6	US-10-750-623-32785
7	18.4	59.4	195235	6	US-10-995-561-13495
8	18.2	58.7	773	6	US-10-750-185-44402
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12	18	58.1	642	6	US-10-750-185-40079
13	18	58.1	642	6	US-10-750-623-40079
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c 101	16.8	54.2	353	7	US-11-128-061-23399	Sequence 23399, Ap	174	16.4	52.9	201	6	US-10-995-561-71197	Sequence 71197, A
c 102	16.8	54.2	353	7	US-11-128-061-6041	Sequence 6041, Ap	175	16.4	52.9	201	6	US-10-995-561-71198	Sequence 71198, A
c 103	16.8	54.2	481	7	US-11-128-061-1859	Sequence 1859, Ap	176	16.4	52.9	201	6	US-10-995-561-72600	Sequence 72600, A
c 104	16.8	54.2	481	7	US-11-128-061-5501	Sequence 5501, Ap	177	16.4	52.9	201	6	US-10-995-561-72642	Sequence 72642, A
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c 108	16.8	54.2	1109	6	US-10-750-185-52807	Sequence 52807, A	181	16.4	52.9	579	7	US-11-128-061-1635	Sequence 1635, Ap
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c 112	16.8	54.2	2566	7	US-11-000-688-272	Sequence 272, App	185	16.4	52.9	600	6	US-10-750-623-841	Sequence 841, App
c 113	16.8	54.2	2765	7	US-11-136-527-126	Sequence 126, App	186	16.4	52.9	600	6	US-10-750-623-3147	Sequence 3147, Ap
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c 121	16.8	54.2	193363	7	US-11-112-908-32	Sequence 32, Appl	194	16.4	52.9	937	6	US-10-750-623-60776	Sequence 60776, A
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c 127	16.6	53.5	201	6	US-10-995-561-30199	Sequence 30199, A	200	16.4	52.9	1307	6	US-10-750-623-51494	Sequence 51494, A
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c 131	16.6	53.5	701	6	US-10-750-185-34907	Sequence 34907, A	204	16.4	52.9	1674	6	US-10-750-623-41826	Sequence 41826, A
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c 133	16.6	53.5	879	6	US-10-750-185-43565	Sequence 43565, A	206	16.4	52.9	1693	6	US-10-750-623-34450	Sequence 34450, A
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c 137	16.6	53.5	1569	6	US-10-467-657-3913	Sequence 3913, Ap	210	16.4	52.9	1900	6	US-10-750-623-39247	Sequence 39247, A
c 138	16.6	53.5	1571	6	US-10-750-185-31755	Sequence 31755, A	211	16.4	52.9	1966	6	US-10-750-185-62134	Sequence 62134, A
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c 153	16.6	53.5	124972	7	US-11-121-086-100	Sequence 100, App	226	16.4	52.9	54767	6	US-10-995-561-13357	Sequence 13357, A
c 154	16.6	53.5	127917	6	US-10-775-169-82	Sequence 82, Appl	227	16.4	52.9	60844	6	US-10-995-561-13359	Sequence 13359, A
c 155	16.6	53.5	134174	7	US-11-121-086-99	Sequence 99, Appl	228	16.4	52.9	118996	7	US-11-121-086-84	Sequence 84, Appl
c 156	16.6	53.5	163162	7	US-11-121-086-66	Sequence 66, Appl	229	16.4	52.9	120096	7	US-11-121-086-27	Sequence 27, Appl
c 157	16.6	53.5	167891	7	US-11-121-086-14	Sequence 14, Appl	230	16.4	52.9	153142	7	US-11-121-086-25	Sequence 25, Appl
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c 162	16.6	53.5	380749	6	US-10-995-561-13216	Sequence 13216, A	235	16.4	52.9	172649	7	US-11-121-086-36	Sequence 36, Appl
c 163	16.6	53.5	1125000	6	US-10-995-561-13286	Sequence 13286, A	236	16.4	52.9	173602	7	US-11-121-086-25	Sequence 25, Appl
c 164	16.4	52.9	26	6	US-10-310-914A-91159	Sequence 912159, A	237	16.4	52.9	173602	7	US-11-121-086-25	Sequence 25, Appl
c 165	16.4	52.9	120	6	US-10-880-315-58	Sequence 58, Appl	238	16.4	52.9	175673	7	US-11-121-086-55	Sequence 55, Appl
c 166	16.4	52.9	201	6	US-10-995-561-28290	Sequence 28290, A	239	16.4	52.9	176503	7	US-11-121-086-53	Sequence 53, Appl
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c 168	16.4	52.9	201	6	US-10-995-561-48202	Sequence 48202, A	241	16.4	52.9	193363	7	US-11-112-908-32	Sequence 32, Appl
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246	16.4	52.9	337780	6	US-10-995-561-13359	Sequence 13259, A	319	16.2	52.3	47196	6	US-10-995-561-13249	Sequence 13249, A
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251	16.4	52.9	1080000	6	US-10-928-446A-183	Sequence 183, App	324	16.2	52.3	175023	7	US-11-121-086-18	Sequence 18, Appl
252	16.4	52.9	1080000	6	US-10-928-446A-185	Sequence 185, App	325	16.2	52.3	185393	7	US-11-121-086-101	Sequence 101, App
253	16.4	52.9	1080000	6	US-10-928-446A-187	Sequence 187, App	326	16.2	52.3	191350	6	US-10-857-780-4	Sequence 4, Appl
254	16.4	52.9	1080000	6	US-10-928-446A-189	Sequence 189, App	327	16.2	52.3	191584	7	US-11-121-086-2	Sequence 2, Appl
255	16.4	52.9	1080000	6	US-10-928-446A-191	Sequence 191, App	328	16.2	52.3	1691140	7	US-11-091-081-1	Sequence 1, Appl
256	16.4	52.9	1080000	6	US-10-928-446A-193	Sequence 193, App	329	16	51.6	25	7	US-11-121-849-99013	Sequence 99013, A
257	16.4	52.9	1080000	6	US-10-928-446A-195	Sequence 195, App	330	16	51.6	75	7	US-10-310-914A-17000	Sequence 17000, A
258	16.4	52.9	1080000	6	US-10-928-446A-197	Sequence 197, App	331	16	51.6	201	6	US-10-995-561-18227	Sequence 18227, A
259	16.4	52.9	1080000	6	US-10-928-446A-199	Sequence 199, App	332	16	51.6	201	6	US-10-995-561-38443	Sequence 38443, A
260	16.4	52.9	1080000	6	US-10-928-446A-201	Sequence 201, App	333	16	51.6	201	6	US-10-995-561-38477	Sequence 38477, A
261	16.2	52.3	25	7	US-11-121-849-99012	Sequence 518012, A	334	16	51.6	201	6	US-10-995-561-38558	Sequence 38558, A
262	16.2	52.3	201	6	US-10-995-561-29492	Sequence 29492, A	335	16	51.6	201	7	US-11-124-368A-7808	Sequence 7808, Ap
263	16.2	52.3	201	6	US-10-995-561-29539	Sequence 29539, A	336	16	51.6	201	7	US-11-124-368A-7809	Sequence 7809, Ap
264	16.2	52.3	201	6	US-10-995-561-40264	Sequence 40264, A	337	16	51.6	201	7	US-11-124-368A-7934	Sequence 7934, Ap
265	16.2	52.3	201	7	US-11-124-368A-31179	Sequence 31179, Ap	338	16	51.6	201	7	US-11-124-368A-7935	Sequence 7935, Ap
266	16.2	52.3	201	7	US-11-124-368A-20143	Sequence 20143, A	339	16	51.6	201	7	US-11-124-368A-16128	Sequence 16128, A
267	16.2	52.3	379	7	US-11-000-688-1001	Sequence 1001, Ap	340	16	51.6	485	7	US-11-128-061-3113	Sequence 3113, Ap
268	16.2	52.3	519	7	US-11-136-527-413	Sequence 413, App	341	16	51.6	485	7	US-11-128-061-6755	Sequence 6755, Ap
269	16.2	52.3	519	7	US-11-136-527-4509	Sequence 4509, Ap	342	16	51.6	580	7	US-11-128-061-2539	Sequence 2539, Ap
270	16.2	52.3	966	6	US-10-750-185-62450	Sequence 62450, A	343	16	51.6	580	7	US-11-128-061-6181	Sequence 6181, Ap
271	16.2	52.3	966	6	US-10-750-623-62450	Sequence 62450, A	344	16	51.6	600	6	US-10-750-185-2892	Sequence 2892, Ap
272	16.2	52.3	1106	6	US-10-750-185-38550	Sequence 38550, A	345	16	51.6	600	6	US-10-750-623-2822	Sequence 2822, Ap
273	16.2	52.3	1106	6	US-10-750-623-38550	Sequence 38550, A	346	16	51.6	712	6	US-10-750-185-51484	Sequence 51484, A
274	16.2	52.3	1113	6	US-10-525-674-37	Sequence 35, Appl	347	16	51.6	712	6	US-10-750-623-51484	Sequence 51484, A
275	16.2	52.3	1113	6	US-10-525-674-37	Sequence 37, Appl	348	16	51.6	1082	6	US-10-750-185-40153	Sequence 40153, A
276	16.2	52.3	1212	7	US-11-192-450-2	Sequence 2, Appl	349	16	51.6	1082	6	US-10-750-623-40153	Sequence 40153, A
277	16.2	52.3	1290	6	US-10-750-185-25962	Sequence 25962, A	350	16	51.6	1116	6	US-10-750-185-58653	Sequence 58653, A
278	16.2	52.3	1290	6	US-10-750-623-25962	Sequence 25962, A	351	16	51.6	1116	6	US-10-750-623-58653	Sequence 58653, A
279	16.2	52.3	1315	6	US-10-750-185-50793	Sequence 50793, A	352	16	51.6	1326	6	US-10-750-185-43374	Sequence 43374, A
280	16.2	52.3	1315	6	US-10-750-623-50793	Sequence 50793, A	353	16	51.6	1326	6	US-10-750-623-43374	Sequence 43374, A
281	16.2	52.3	1362	7	US-11-000-688-991	Sequence 921, App	354	16	51.6	1524	6	US-10-750-185-55527	Sequence 55527, A
282	16.2	52.3	1442	6	US-10-750-185-25029	Sequence 25029, A	355	16	51.6	1524	6	US-10-750-623-55527	Sequence 55527, A
283	16.2	52.3	1442	6	US-10-750-623-25029	Sequence 25029, A	356	16	51.6	1725	6	US-10-750-185-34803	Sequence 34803, A
284	16.2	52.3	1543	6	US-10-750-185-25939	Sequence 25939, A	357	16	51.6	1725	6	US-10-750-623-34803	Sequence 34803, A
285	16.2	52.3	1543	6	US-10-750-623-25939	Sequence 25939, A	358	16	51.6	2454	6	US-10-750-185-34958	Sequence 34958, A
286	16.2	52.3	1699	6	US-10-750-185-36530	Sequence 36530, A	359	16	51.6	2454	6	US-10-750-623-34958	Sequence 34958, A
287	16.2	52.3	1699	6	US-10-750-623-36530	Sequence 36530, A	360	16	51.6	2466	6	US-10-750-185-42958	Sequence 42958, A
288	16.2	52.3	1808	6	US-10-750-185-53123	Sequence 53123, A	361	16	51.6	2466	6	US-10-750-623-42958	Sequence 42958, A
289	16.2	52.3	1808	6	US-10-750-623-53123	Sequence 53123, A	362	16	51.6	2474	7	US-11-090-351-2	Sequence 2, Appl
290	16.2	52.3	1914	6	US-10-750-185-42446	Sequence 42446, A	363	16	51.6	2574	6	US-10-750-185-60484	Sequence 60484, A
291	16.2	52.3	1914	6	US-10-750-623-42446	Sequence 42446, A	364	16	51.6	2574	6	US-10-750-623-60484	Sequence 60484, A
292	16.2	52.3	2151	6	US-10-750-185-51126	Sequence 51126, A	365	16	51.6	3133	7	US-11-136-527-2162	Sequence 2162, Ap
293	16.2	52.3	2151	6	US-10-750-623-51126	Sequence 51126, A	366	16	51.6	3329	6	US-10-750-185-46400	Sequence 46400, A
294	16.2	52.3	2164	6	US-10-750-185-54015	Sequence 54015, A	367	16	51.6	3329	6	US-10-750-623-46400	Sequence 46400, A
295	16.2	52.3	2164	6	US-10-750-623-54015	Sequence 54015, A	368	16	51.6	3342	7	US-11-136-527-2520	Sequence 2520, Ap
296	16.2	52.3	2234	6	US-10-750-185-59577	Sequence 59577, A	369	16	51.6	4508	6	US-10-750-185-50423	Sequence 50423, A
297	16.2	52.3	2294	6	US-10-750-623-59577	Sequence 59577, A	370	16	51.6	4508	6	US-10-750-623-50423	Sequence 50423, A
298	16.2	52.3	2391	7	US-11-080-991-99	Sequence 99, Appl	371	16	51.6	8219	6	US-10-750-185-53709	Sequence 53709, A
299	16.2	52.3	2567	6	US-10-750-185-56296	Sequence 56296, A	372	16	51.6	8219	6	US-10-750-623-53709	Sequence 53709, A
300	16.2	52.3	2567	6	US-10-750-623-56296	Sequence 56296, A	373	16	51.6	8280	7	US-11-000-688-641	Sequence 641, App
301	16.2	52.3	2628	6	US-10-933-025-11	Sequence 11, Appl	374	16	51.6	12323	7	US-11-124-368A-2893	Sequence 2893, Ap
302	16.2	52.3	2628	6	US-10-933-025-11	Sequence 17, Appl	375	16	51.6	18930	6	US-10-995-561-13213	Sequence 13213, A
303	16.2	52.3	2649	6	US-10-750-185-26587	Sequence 26587, A	376	16	51.6	46954	7	US-10-995-561-13279	Sequence 13279, A
304	16.2	52.3	2649	6	US-10-750-623-26587	Sequence 26587, A	377	16	51.6	46954	7	US-11-124-368A-2892	Sequence 2892, Ap
305	16.2	52.3	2754	6	US-10-947-249-161	Sequence 161, App	378	16	51.6	100000	7	US-11-124-368A-2881	Sequence 2881, Ap
306	16.2	52.3	2997	7	US-11-145-703-190	Sequence 190, App	379	16	51.6	143174	7	US-11-121-086-99	Sequence 99, Appl
307	16.2	52.3	3001	7	US-11-145-703-189	Sequence 189, App	380	16	51.6	143389	7	US-11-112-908-30	Sequence 30, Appl
308	16.2	52.3	3407	7	US-11-124-368A-2	Sequence 2, Appl	381	16	51.6	150314	7	US-11-112-908-24	Sequence 24, Appl
309	16.2	52.3	3494	6	US-10-750-185-52984	Sequence 52984, A	382	16	51.6	186442	7	US-11-121-086-104	Sequence 104, App
310	16.2	52.3	3494	6	US-10-750-623-52984	Sequence 52984, A	383	16	51.6	1080000	6	US-10-928-446A-1	Sequence 1, Appl
311	16.2	52.3	3613	6	US-10-933-025-16	Sequence 16, Appl	384	16	51.6	1080000	6	US-10-928-446A-181	Sequence 181, App
312	16.2	52.3	3654	6	US-10-750-185-24649	Sequence 24649, A	385	16	51.6	1080000	6	US-10-928-446A-183	Sequence 183, App
313	16.2	52.3	3654	6	US-10-750-623-24649	Sequence 24649, A	386	16	51.6	1080000	6	US-10-928-446A-185	Sequence 185, App
314	16.2	52.3	3766	6	US-10-933-025-10	Sequence 10, Appl	387	16	51.6	1080000	6	US-10-928-446A-187	Sequence 187, App
315	16.2	52.3	4340	6	US-10-750-185-31454	Sequence 31454, A	388	16	51.6	1080000	6	US-10-928-446A-189	Sequence 189, App

389	16	51.6	1080000	6	US-10-928-446A-191	Sequence 191, App	c 462	15.8	51.0	1773	6	US-10-750-623-37916	Sequence 37916, A
390	16	51.6	1080000	6	US-10-928-446A-193	Sequence 193, App	c 463	15.8	51.0	1805	6	US-10-750-185-57676	Sequence 57676, A
391	16	51.6	1080000	6	US-10-928-446A-195	Sequence 195, App	c 464	15.8	51.0	1805	6	US-10-750-623-57676	Sequence 57676, A
392	16	51.6	1080000	6	US-10-928-446A-197	Sequence 197, App	c 465	15.8	51.0	1918	7	US-11-136-527-2194	Sequence 2194, App
393	16	51.6	1080000	6	US-10-928-446A-199	Sequence 199, App	c 466	15.8	51.0	1928	6	US-10-750-185-43392	Sequence 43392, A
394	16	51.6	1080000	6	US-10-928-446A-201	Sequence 201, App	c 467	15.8	51.0	1928	6	US-10-750-623-43392	Sequence 43392, A
395	15.8	51.0	32	6	US-10-939-294A-19938	Sequence 19938, A	c 468	15.8	51.0	2101	7	US-11-136-527-423	Sequence 423, App
396	15.8	51.0	201	6	US-10-995-561-34110	Sequence 34110, A	c 469	15.8	51.0	2106	6	US-10-750-185-40055	Sequence 40055, A
397	15.8	51.0	201	6	US-10-995-561-34112	Sequence 34112, A	c 470	15.8	51.0	2106	6	US-10-750-623-40055	Sequence 40055, A
398	15.8	51.0	201	6	US-10-995-561-34122	Sequence 34122, A	c 471	15.8	51.0	2254	6	US-10-750-185-28452	Sequence 28452, A
399	15.8	51.0	201	6	US-10-995-561-34123	Sequence 34123, A	c 472	15.8	51.0	2254	6	US-10-750-623-28452	Sequence 28452, A
400	15.8	51.0	201	6	US-10-995-561-39615	Sequence 39615, A	c 473	15.8	51.0	2277	6	US-10-467-657-2721	Sequence 2721, App
401	15.8	51.0	201	6	US-10-995-561-40141	Sequence 40141, A	c 474	15.8	51.0	2288	6	US-10-750-185-51806	Sequence 51806, A
402	15.8	51.0	201	6	US-10-995-561-40276	Sequence 40276, A	c 475	15.8	51.0	2288	6	US-10-750-623-51806	Sequence 51806, A
403	15.8	51.0	201	6	US-10-995-561-52273	Sequence 52273, A	c 476	15.8	51.0	2448	6	US-10-750-185-37434	Sequence 37434, A
404	15.8	51.0	201	7	US-11-124-368A-1004	Sequence 1004, App	c 477	15.8	51.0	2448	6	US-10-750-623-37434	Sequence 37434, A
405	15.8	51.0	201	7	US-11-124-368A-9294	Sequence 9294, App	c 478	15.8	51.0	2822	6	US-10-131-826A-305	Sequence 305, App
406	15.8	51.0	201	7	US-11-124-368A-10070	Sequence 10070, A	c 479	15.8	51.0	2848	6	US-10-750-185-59004	Sequence 59004, A
407	15.8	51.0	415	7	US-11-000-688-227	Sequence 227, App	c 480	15.8	51.0	2848	6	US-10-750-623-59004	Sequence 59004, A
408	15.8	51.0	598	6	US-10-750-185-4449	Sequence 4449, App	c 481	15.8	51.0	3018	6	US-10-750-185-60261	Sequence 60261, A
409	15.8	51.0	598	6	US-10-750-623-4449	Sequence 4449, App	c 482	15.8	51.0	3018	6	US-10-750-623-60261	Sequence 60261, A
410	15.8	51.0	600	6	US-10-750-185-868	Sequence 868, App	c 483	15.8	51.0	3029	6	US-10-793-626-4197	Sequence 4197, App
411	15.8	51.0	600	6	US-10-750-185-4267	Sequence 4267, App	c 484	15.8	51.0	3107	7	US-11-136-527-1021	Sequence 1021, App
412	15.8	51.0	600	6	US-10-750-623-868	Sequence 868, App	c 485	15.8	51.0	4098	6	US-10-821-234-156	Sequence 156, App
413	15.8	51.0	600	6	US-10-750-623-4267	Sequence 4267, App	c 486	15.8	51.0	4100	6	US-10-793-626-4162	Sequence 4162, App
414	15.8	51.0	600	7	US-11-136-527-5117	Sequence 5117, App	c 487	15.8	51.0	4572	7	US-11-136-527-292	Sequence 292, App
415	15.8	51.0	600	7	US-11-136-527-7822	Sequence 7822, App	c 488	15.8	51.0	4773	7	US-11-214-613-32	Sequence 32, Appl
416	15.8	51.0	684	6	US-10-948-429A-5	Sequence 5, Appl	c 489	15.8	51.0	4854	7	US-11-136-527-3726	Sequence 3726, App
417	15.8	51.0	853	6	US-10-750-185-63568	Sequence 63568, A	c 490	15.8	51.0	4932	7	US-11-124-368A-63	Sequence 63, Appl
418	15.8	51.0	853	6	US-10-750-623-63568	Sequence 63568, A	c 491	15.8	51.0	4950	7	US-11-214-613-34	Sequence 34, Appl
419	15.8	51.0	856	6	US-10-750-185-51770	Sequence 51770, A	c 492	15.8	51.0	4965	7	US-11-214-613-37	Sequence 37, Appl
420	15.8	51.0	856	6	US-10-750-623-51770	Sequence 51770, A	c 493	15.8	51.0	4974	7	US-11-214-613-35	Sequence 35, Appl
421	15.8	51.0	862	6	US-10-750-185-24591	Sequence 24591, A	c 494	15.8	51.0	5164	7	US-11-214-613-36	Sequence 36, Appl
422	15.8	51.0	862	6	US-10-750-623-24591	Sequence 24591, A	c 495	15.8	51.0	5277	7	US-11-214-613-25	Sequence 25, Appl
423	15.8	51.0	915	6	US-10-750-185-35696	Sequence 35696, A	c 496	15.8	51.0	5295	7	US-11-214-613-38	Sequence 38, Appl
424	15.8	51.0	915	6	US-10-750-623-35696	Sequence 35696, A	c 497	15.8	51.0	5327	7	US-11-214-613-27	Sequence 27, Appl
425	15.8	51.0	921	7	US-11-038-981A-7	Sequence 7, Appl	c 498	15.8	51.0	5337	7	US-11-214-613-19	Sequence 19, Appl
426	15.8	51.0	1065	7	US-11-038-981A-15	Sequence 15, Appl	c 499	15.8	51.0	5337	7	US-11-214-613-23	Sequence 23, Appl
427	15.8	51.0	1065	7	US-11-038-981A-17	Sequence 17, Appl	c 500	15.8	51.0	5337	7	US-11-214-613-31	Sequence 31, Appl
428	15.8	51.0	1073	7	US-11-038-981A-16	Sequence 16, Appl	c 501	15.8	51.0	5338	7	US-11-214-613-15	Sequence 15, Appl
429	15.8	51.0	1150	7	US-11-038-981A-14	Sequence 14, Appl	c 502	15.8	51.0	5338	7	US-11-214-613-29	Sequence 29, Appl
430	15.8	51.0	1154	6	US-10-750-185-56283	Sequence 56283, A	c 503	15.8	51.0	5345	7	US-11-214-613-17	Sequence 17, Appl
431	15.8	51.0	1154	6	US-10-750-623-56283	Sequence 56283, A	c 504	15.8	51.0	5387	7	US-11-214-613-41	Sequence 41, Appl
432	15.8	51.0	1158	7	US-11-038-981A-12	Sequence 12, Appl	c 505	15.8	51.0	5395	7	US-11-214-613-21	Sequence 21, Appl
433	15.8	51.0	1158	7	US-11-038-981A-13	Sequence 13, Appl	c 506	15.8	51.0	6377	7	US-11-069-834-57	Sequence 57, Appl
434	15.8	51.0	1176	7	US-11-038-981A-11	Sequence 11, Appl	c 507	15.8	51.0	6442	7	US-11-069-834-55	Sequence 55, Appl
435	15.8	51.0	1184	7	US-11-038-981A-9	Sequence 9, Appl	c 508	15.8	51.0	7300	7	US-11-136-527-1989	Sequence 1989, App
436	15.8	51.0	1184	7	US-11-038-981A-10	Sequence 10, Appl	c 509	15.8	51.0	8231	6	US-11-136-527-1928	Sequence 1928, App
437	15.8	51.0	1206	6	US-10-750-185-49629	Sequence 49629, A	c 510	15.8	51.0	23672	6	US-10-995-561-13267	Sequence 13267, A
438	15.8	51.0	1206	6	US-10-750-623-49629	Sequence 49629, A	c 511	15.8	51.0	60754	6	US-10-995-561-13440	Sequence 13440, A
439	15.8	51.0	1249	7	US-11-128-061-527	Sequence 527, App	c 512	15.8	51.0	66131	6	US-10-995-561-13501	Sequence 13501, A
440	15.8	51.0	1249	7	US-11-128-061-4169	Sequence 4169, App	c 513	15.8	51.0	93112	6	US-10-995-561-13234	Sequence 13234, A
441	15.8	51.0	1259	7	US-11-214-613-43	Sequence 43, Appl	c 514	15.8	51.0	100000	6	US-11-124-368A-2899	Sequence 2899, App
442	15.8	51.0	1273	7	US-11-038-981A-18	Sequence 18, Appl	c 515	15.8	51.0	130472	6	US-10-995-561-13312	Sequence 13312, A
443	15.8	51.0	1273	7	US-11-038-981A-20	Sequence 20, Appl	c 516	15.8	51.0	130472	6	US-10-995-561-13312	Sequence 13312, A
444	15.8	51.0	1281	7	US-11-038-981A-19	Sequence 19, Appl	c 517	15.8	51.0	149382	6	US-10-995-561-13272	Sequence 13272, A
445	15.8	51.0	1330	6	US-10-750-185-47047	Sequence 47047, A	c 518	15.8	51.0	152335	7	US-11-121-086-73	Sequence 73, Appl
446	15.8	51.0	1330	6	US-10-750-623-47047	Sequence 47047, A	c 519	15.8	51.0	154538	7	US-11-121-086-33	Sequence 33, Appl
447	15.8	51.0	1355	6	US-10-750-185-62831	Sequence 62831, A	c 520	15.8	51.0	156735	7	US-11-121-086-93	Sequence 93, Appl
448	15.8	51.0	1355	6	US-10-750-623-62831	Sequence 62831, A	c 521	15.8	51.0	162289	7	US-11-121-086-20	Sequence 20, Appl
449	15.8	51.0	1400	7	US-11-136-527-4519	Sequence 4519, App	c 522	15.8	51.0	167116	7	US-11-121-086-44	Sequence 44, Appl
450	15.8	51.0	1400	7	US-11-128-061-4626	Sequence 4626, App	c 523	15.8	51.0	169725	7	US-11-121-086-63	Sequence 63, Appl
451	15.8	51.0	1437	7	US-11-128-061-984	Sequence 984, App	c 524	15.8	51.0	172649	7	US-11-121-086-36	Sequence 36, Appl
452	15.8	51.0	1459	7	US-11-038-981A-23	Sequence 23, Appl	c 525	15.8	51.0	175416	7	US-11-121-086-43	Sequence 43, Appl
453	15.8	51.0	1467	7	US-11-038-981A-21	Sequence 21, Appl	c 526	15.8	51.0	177623	7	US-11-112-908-41	Sequence 41, Appl
454	15.8	51.0	1467	7	US-11-038-981A-22	Sequence 22, Appl	c 527	15.8	51.0	179892	7	US-11-112-908-39	Sequence 39, Appl
455	15.8	51.0	1531	6	US-10-750-185-57262	Sequence 57262, A	c 528	15.8	51.0	187745	7	US-11-121-086-84	Sequence 84, Appl
456	15.8	51.0	1531	6	US-10-750-623-57262	Sequence 57262, A	c 529	15.8	51.0	189252	7	US-11-121-086-54	Sequence 54, Appl
457	15.8	51.0	1600	6	US-10-750-185-47620	Sequence 47620, A	c 530	15.8	51.0	193084	6	US-11-121-086-82	Sequence 82, Appl
458	15.8	51.0	1600	6	US-10-750-623-47620	Sequence 47620, A	c 531	15.8	51.0	201900	7	US-10-995-561-13303	Sequence 13303, A
459	15.8	51.0	1729	6	US-10-750-185-63053	Sequence 63053, A	c 532	15.8	51.0	2027600	7	US-11-112-908-31	Sequence 31, Appl
460	15.8	51.0	1729	6	US-10-750-623-63053	Sequence 63053, A	c 533	15.8	51.0	215308	7	US-11-121-086-77	Sequence 77, Appl
461	15.8	51.0	1773	6	US-10-750-185-37916	Sequence 37916, A	c 534	15.8	51.0	403278	6	US-10-995-561-13421	Sequence 13421, A









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973 15.2 49.0 201 6 US-10-995-561-2715 Sequence 2715, Ap
974 15.2 49.0 201 6 US-10-995-561-2716 Sequence 2716, Ap
975 15.2 49.0 201 6 US-10-995-561-2718 Sequence 2718, Ap
976 15.2 49.0 201 6 US-10-995-561-2720 Sequence 2720, Ap
977 15.2 49.0 201 6 US-10-995-561-2722 Sequence 2722, Ap
978 15.2 49.0 201 6 US-10-995-561-2724 Sequence 2724, Ap
979 15.2 49.0 201 6 US-10-995-561-2725 Sequence 2725, Ap
980 15.2 49.0 201 6 US-10-995-561-2757 Sequence 2757, Ap
981 15.2 49.0 201 6 US-10-995-561-2826 Sequence 2826, Ap
982 15.2 49.0 201 6 US-10-995-561-2828 Sequence 2828, Ap
983 15.2 49.0 201 6 US-10-995-561-2830 Sequence 2830, Ap
984 15.2 49.0 201 6 US-10-995-561-2832 Sequence 2832, Ap
985 15.2 49.0 201 6 US-10-995-561-2833 Sequence 2833, Ap
986 15.2 49.0 201 6 US-10-995-561-2835 Sequence 2835, Ap
987 15.2 49.0 201 6 US-10-995-561-2836 Sequence 2836, Ap
988 15.2 49.0 201 6 US-10-995-561-2870 Sequence 2870, Ap
989 15.2 49.0 201 6 US-10-995-561-21812 Sequence 21812, A
990 15.2 49.0 201 6 US-10-995-561-21815 Sequence 21815, A
991 15.2 49.0 201 6 US-10-995-561-21817 Sequence 21817, A
992 15.2 49.0 201 6 US-10-995-561-21819 Sequence 21819, A
993 15.2 49.0 201 6 US-10-995-561-21820 Sequence 21820, A
994 15.2 49.0 201 6 US-10-995-561-21822 Sequence 21822, A
995 15.2 49.0 201 6 US-10-995-561-21824 Sequence 21824, A
996 15.2 49.0 201 6 US-10-995-561-22114 Sequence 22114, A
997 15.2 49.0 201 6 US-10-995-561-24315 Sequence 24315, A
998 15.2 49.0 201 6 US-10-995-561-35246 Sequence 35246, A
999 15.2 49.0 201 6 US-10-995-561-37655 Sequence 37655, A
c1000 15.2 49.0 201 6 US-10-995-561-52862 Sequence 52862, A
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## ALIGNMENTS

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RESULT 1
US-10-750-185-63022
; Sequence 63022, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63022
; TYPE: DNA
; ORGANISM: Bovine 19866881344398
US-10-750-185-63022
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Query Match 64.5%; Score 20; DB 6; Length 796;
Best Local Similarity 82.1%; Pred. No. 19;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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QY 3 GGCTGCTGGCTGGGCTTGCAAGGATG 30
||| ||| ||| ||| ||| ||| ||| ||| |||
Db 16 GGTATGGCAGCCTGGGCTTGCAAGGAAG 43
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RESULT 2
US-10-750-623-63022
; Sequence 63022, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
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; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63022
; LENGTH: 796
; TYPE: DNA
; ORGANISM: Bovine 19866881344398
US-10-750-623-63022
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```
Query Match 64.5%; Score 20; DB 6; Length 796;
Best Local Similarity 82.1%; Pred. No. 19;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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QY 3 GGCTGCTGGCTGGGCTTGCAAGGATG 30
||| ||| ||| ||| ||| ||| ||| ||| |||
Db 16 GGTATGGCAGCCTGGGCTTGCAAGGAAG 43
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RESULT 3
US-10-750-185-47793
; Sequence 47793, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47793
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Bovine 19866880988712
US-10-750-185-47793
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Query Match 59.4%; Score 18.4; DB 6; Length 1327;
Best Local Similarity 78.6%; Pred. No. 90;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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QY 4 GTCTGCTGGCTGGGCTTGCAAGGATGT 31
||| ||| ||| ||| ||| ||| ||| ||| |||
Db 431 GGCTGGCTGGAAGGCATTGCAAGGATGT 458
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RESULT 4
US-10-750-623-47793
; Sequence 47793, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
```

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; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 47793
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Bovine 19866880489560
US-10-750-623-47793

Query Match          59.4%; Score 18.4; DB 6; Length 1327;
Best Local Similarity 78.6%; Pred. No. 90;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      4 GTCTGCTGGCTGGCTTGCAGGATGT 31
Db      431 GGCTGGCTGAAGCAATGCAAGATGT 458

RESULT 5
US-10-750-185-32785/c
; Sequence 32785, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 32785
; LENGTH: 1572
; TYPE: DNA
; ORGANISM: Bovine 19866880489560
US-10-750-185-32785

Query Match          59.4%; Score 18.4; DB 6; Length 1572;
Best Local Similarity 78.6%; Pred. No. 90;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      4 GTCTGCTGGCTGGCTTGCAGGATGT 31
Db      1497 GACTGCTGGCTGAGCTTGCAAGATGT 1470

RESULT 6
US-10-750-623-32785/c
; Sequence 32785, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
US-10-750-623-32785

Query Match          59.4%; Score 18.4; DB 6; Length 1572;
Best Local Similarity 78.6%; Pred. No. 90;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      4 GTCTGCTGGCTGGCTTGCAGGATGT 31
Db      1497 GACTGCTGGCTGAGCTTGCAAGATGT 1470

RESULT 7
US-10-995-561-13495
; Sequence 13495, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13495
; LENGTH: 195235
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13495

Query Match          59.4%; Score 18.4; DB 6; Length 195235;
Best Local Similarity 78.6%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      4 GTCTGCTGGCTGGCTTGCAGGATGT 31
Db      157805 GTCTGCTGCTGCCCTTGCTGGATCT 157832

RESULT 8
US-10-750-185-44402/c
; Sequence 44402, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
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; SEQ ID NO 44402
; LENGTH: 773
; TYPE: DNA
; ORGANISM: Bovine 19866881828934
US-10-750-185-44402

Query Match      58.7%; Score 18.2; DB 6; Length 773;
Best Local Similarity 74.2%; Pred. No. 1.1e+02;
Matches 23; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGGCTTGCAGGATG 31
Db 499 GGGGCTGGCTGGCTGTGTCTGCAACATCT 469

RESULT 9
US-10-750-623-44402/c
; Sequence 44402, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 44402
; LENGTH: 773
; TYPE: DNA
; ORGANISM: Bovine 19866881828934
US-10-750-623-44402

Query Match      58.7%; Score 18.2; DB 6; Length 773;
Best Local Similarity 74.2%; Pred. No. 1.1e+02;
Matches 23; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGGCTTGCAGGATG 31
Db 499 GGGGCTGGCTGGCTGTGTCTGCAACATCT 469

RESULT 10
US-10-995-561-58109/c
; Sequence 58109, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58109
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-58109

Query Match      58.1%; Score 18; DB 6; Length 201;
Best Local Similarity 80.8%; Pred. No. 1.2e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

; SEQ ID NO 44402
; LENGTH: 773
; TYPE: DNA
; ORGANISM: Bovine 19866881828934
US-10-750-185-44402

Query Match      58.7%; Score 18.2; DB 6; Length 773;
Best Local Similarity 74.2%; Pred. No. 1.1e+02;
Matches 23; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 GGGCTCTGCTGGCTGGCTTGCAGGATG 31
Db 499 GGGGCTGGCTGGCTGTGTCTGCAACATCT 469

RESULT 11
US-10-995-561-58205/c
; Sequence 58205, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58205
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-58205

Query Match      58.1%; Score 18; DB 6; Length 201;
Best Local Similarity 80.8%; Pred. No. 1.2e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 5 TCTGTCTGCTGGCTGGCTTGCAGGATG 30
Db 198 TCTGTCTGCTGGCTGGCTGCGCAAGATG 173

RESULT 12
US-10-750-185-40079
; Sequence 40079, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 40079
; LENGTH: 642
; TYPE: DNA
; ORGANISM: Bovine 19866881435450
US-10-750-185-40079

Query Match      58.1%; Score 18; DB 6; Length 642;
Best Local Similarity 80.8%; Pred. No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 5 TCTGTCTGCTGGCTGGCTTGCAGGATG 30
Db 420 TCTGGCTAGCTGGCTGCGCAAGGAAG 445

RESULT 13
US-10-750-623-40079
; Sequence 40079, Application US/10750623
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; Publication No. US20050287531A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-1  
; CURRENT APPLICATION NUMBER: US/10/750,623  
; PRIOR FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIN version 3.1  
; SEQ ID NO 40079  
; LENGTH: 642  
; TYPE: DNA  
; ORGANISM: Bovine 19866881435450  
US-10-750-623-40079

Query Match 58.1%; Score 18; DB 6; Length 642;  
Best Local Similarity 80.8%; Pred. No. 1.3e+02;  
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 5 TCTGCTGGCTGGGCTTGCAAGGATG 30  
Db 420 TCTGGCTAGCTGGGCTGCCAAGGAG 445

RESULT 14  
US-10-750-185-28909  
; Sequence 28909, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; PRIOR FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIN version 3.1  
; SEQ ID NO 28909  
; LENGTH: 1067  
; TYPE: DNA  
; ORGANISM: Bovine 19866880678691  
US-10-750-185-28909

Query Match 58.1%; Score 18; DB 6; Length 1067;  
Best Local Similarity 80.8%; Pred. No. 1.3e+02;  
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 6 CTGCTGGCTGGGCTTGCAAGGATGT 31  
Db 987 CTGAATGGCTGTGCTTTCCAGGATGT 1012

RESULT 15  
US-10-750-623-28909  
; Sequence 28909, Application US/10750623  
; Publication No. US20050287531A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.

; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-1  
; CURRENT APPLICATION NUMBER: US/10/750,623  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIN version 3.1  
; SEQ ID NO 28909  
; LENGTH: 1067  
; TYPE: DNA  
; ORGANISM: Bovine 19866880678691  
US-10-750-623-28909

Query Match 58.1%; Score 18; DB 6; Length 1067;  
Best Local Similarity 80.8%; Pred. No. 1.3e+02;  
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 6 CTGCTGGCTGGGCTTGCAAGGATGT 31  
Db 987 CTGAATGGCTGTGCTTTCCAGGATGT 1012

RESULT 16  
US-10-750-185-64490  
; Sequence 64490, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIN version 3.1  
; SEQ ID NO 64490  
; LENGTH: 1168  
; TYPE: DNA  
; ORGANISM: Bovine 19866881187056  
US-10-750-185-64490

Query Match 58.1%; Score 18; DB 6; Length 1168;  
Best Local Similarity 80.8%; Pred. No. 1.3e+02;  
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 6 CTGCTGGCTGGGCTTGCAAGGATGT 31  
Db 1010 CTGCTGGGAGAGATTTCGAAGGCTGT 1035

RESULT 17  
US-10-750-623-64490  
; Sequence 64490, Application US/10750623  
; Publication No. US20050287531A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David

```

; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: NM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64490
; LENGTH: 1168
; TYPE: DNA
; ORGANISM: Bovine
US-10-750-623-64490

Query Match      58.1%; Score 18; DB 6; Length 1168;
Best Local Similarity 80.8%; Pred.No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY    6   CTGCTGGCTGGGCTTGC AAGGATGT 31
       ||||| | | | | | | | | | |
DB    1010 CTGCTGGGAGAGTTTC AAGGCTGT 1035

RESULT 18
US-10-821-234-234/c
; Sequence 234, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 234
; LENGTH: 2058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-234

Query Match      58.1%; Score 18; DB 6; Length 2058;
Best Local Similarity 80.8%; Pred.No. 1.3e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY    1   GGGGCTGTGCTGGCTGGGCTTGCAAG 26
       ||| |||| | | | | | | | | | |
DB    445 GGGACCTGTCCGGCTTGGCTTCCAAG 420

RESULT 19
US-10-995-561-13438/c
; Sequence 13438, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13438

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RESULT 22
US-11-121-086-59
; Sequence 59, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121.086
; PRIOR FILING DATE: 2005-05-04
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 162537
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-59

Query Match      58.1%; Score 18; DB 7; Length 162537;
Best Local Similarity 80.8%; Pred. No. 1.7e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      3  GGTCGTCTGGCTGGGCTTGCAGGA 28
Db      78403  GGTCGTCTGGCTGTGTTCACAAAGA 78428

RESULT 23
US-11-121-086-37/c
; Sequence 37, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121.086
; CURRENT FILING DATE: 2005-05-04
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 184000
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-37

Query Match      58.1%; Score 18; DB 7; Length 184000;
Best Local Similarity 80.8%; Pred. No. 1.7e+02;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      6  CTCTGTGGCTGGGCTTGCAGGATGT 31
Db      133430  CTGTGTAGCTGGGATTACAGCATGT 133405

RESULT 24
US-10-750-185-53536/c
; Sequence 53536, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31

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; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53536
; LENGTH: 826
; TYPE: DNA
; ORGANISM: Bovine 19866881923862
US-10-750-185-53536

Query Match      57.4%; Score 17.8; DB 6; Length 826;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1  GGGCTCTGTCTGGCTGGGCTTGCAGGAT 29
Db      39  GGCTTCAGTTTGGCTGGTGTTCATGGAT 11

RESULT 25
US-10-750-623-53536/c
; Sequence 53536, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53536
; LENGTH: 826
; TYPE: DNA
; ORGANISM: Bovine 19866881923862
US-10-750-623-53536

Query Match      57.4%; Score 17.8; DB 6; Length 826;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1  GGGCTCTGTCTGGCTGGGCTTGCAGGAT 29
Db      39  GGCTTCAGTTTGGCTGGTGTTCATGGAT 11

RESULT 26
US-10-750-185-42836/c
; Sequence 42836, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31

```

```
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 42836
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Bovine 19866881341053
US-10-750-185-42836

Query Match          57.4%; Score 17.8; DB 6; Length 1012;
Best Local Similarity 90.5%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 11 TGGCTGGGCTTGCAGGATGT 31
      ||||| ||||| ||||| |||||
Db 34 TGGCTGGGTTTCAGGATGT 14

RESULT 27
US-10-750-623-42836/c
; Sequence 42836, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 42836
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Bovine 19866881341053
US-10-750-623-42836

Query Match          57.4%; Score 17.8; DB 6; Length 1012;
Best Local Similarity 90.5%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 11 TGGCTGGGCTTGCAGGATGT 31
      ||||| ||||| ||||| |||||
Db 34 TGGCTGGGTTTCAGGATGT 14

RESULT 28
US-10-750-185-33049/c
; Sequence 33049, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880694854
US-10-750-623-33049

Query Match          57.4%; Score 17.8; DB 6; Length 1408;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGGTCTGCTGCTGGCTGGCTTGCAGGATG 30
      ||||| ||||| ||||| |||||
Db 250 GTGACTGTGAGGATGTGCTTGGAAAGATG 222

RESULT 29
US-10-750-623-33049/c
; Sequence 33049, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 33049
; LENGTH: 1408
; TYPE: DNA
; ORGANISM: Bovine 19866880694854
US-10-750-623-33049

Query Match          57.4%; Score 17.8; DB 6; Length 1408;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGGTCTGCTGCTGGCTGGCTTGCAGGATG 30
      ||||| ||||| ||||| |||||
Db 250 GTGACTGTGAGGATGTGCTTGGAAAGATG 222

RESULT 30
US-10-750-185-43064
; Sequence 43064, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880694854
US-10-750-623-33049

Query Match          57.4%; Score 17.8; DB 6; Length 1408;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGGTCTGCTGCTGGCTGGCTTGCAGGATG 30
      ||||| ||||| ||||| |||||
Db 250 GTGACTGTGAGGATGTGCTTGGAAAGATG 222
```

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; TYPE: DNA
; ORGANISM: Bovine 19866880732550
US-10-750-185-43064

Query Match      57.4%; Score 17.8; DB 6; Length 1567;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGTCTGTCTGGCTGGCTTGCAGGATG 30
   ||||| ||||| ||||| ||||| |||||
Db 1091 GGGTGTCTGTGGCTGGCAATCAGGAGG 1119

RESULT 31
US-10-750-623-43064
; Sequence 43064, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750, 623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43064
; LENGTH: 1567
; TYPE: DNA
; ORGANISM: Bovine 19866880732550
US-10-750-623-43064

Query Match      57.4%; Score 17.8; DB 6; Length 1567;
Best Local Similarity 75.9%; Pred. No. 1.6e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGTCTGTCTGGCTGGCTTGCAGGATG 30
   ||||| ||||| ||||| ||||| |||||
Db 1091 GGGTGTCTGTGGCTGGCAATCAGGAGG 1119

RESULT 32
US-11-121-086-17/c
; Sequence 17, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 17
; LENGTH: 178877
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-17

Query Match      57.4%; Score 17.8; DB 7; Length 178877;
Best Local Similarity 75.9%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY 3 GGTCTGTCTGGCTGGCTTGCAGGATGT 31
   ||||| ||||| ||||| ||||| |||||
Db 113943 GGTCACTCTGTGTGGCTTTGAAGGTTGT 113915

RESULT 33
US-11-121-086-58/c
; Sequence 58, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 58
; LENGTH: 180654
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-58

Query Match      57.4%; Score 17.8; DB 7; Length 180654;
Best Local Similarity 75.9%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGGCTTGCAGGAT 29
   ||||| ||||| ||||| ||||| |||||
Db 72787 GTGGTCTGGCGCTGGGCTCGTAGGTT 72759

RESULT 34
US-10-995-561-13473/c
; Sequence 13473, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13473
; LENGTH: 394468
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(394468)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-2)
US-10-995-561-13473

Query Match      57.4%; Score 17.8; DB 6; Length 394468;
Best Local Similarity 75.9%; Pred. No. 2e+02;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGGCTGGCTTGCAGGATG 30
   ||||| ||||| ||||| ||||| |||||
Db 46777 GGGTCTGAATGAGTGGATTGAAGGAGG 46749

RESULT 35
US-10-750-185-33611
; Sequence 33611, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
```

```
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 33611
; LENGTH: 1409
; TYPE: DNA
; ORGANISM: Bovine 19866880395287
US-10-750-185-33611

Query Match          56.8%; Score 17.6; DB 6; Length 1409;
Best Local Similarity 83.3%; Pred. No. 1.9e+02;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 TCTGCTGGCTGGGCTTGCAGGA 28
   ||||| ||||| ||||| ||||| |||||
Db 1168 TCTTCTTACTGGCCTTGCAGGA 1191

RESULT 36
US-10-750-623-33611
; Sequence 33611, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 33611
; LENGTH: 1409
; TYPE: DNA
; ORGANISM: Bovine 19866880395287
US-10-750-623-33611

Query Match          56.8%; Score 17.6; DB 6; Length 1409;
Best Local Similarity 83.3%; Pred. No. 1.9e+02;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 TCTGCTGGCTGGGCTTGCAGGA 28
   ||||| ||||| ||||| ||||| |||||
Db 1168 TCTTCTTACTGGCCTTGCAGGA 1191

RESULT 37
US-10-750-185-31181
; Sequence 31181, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
```

```
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 31181
; LENGTH: 5239
; TYPE: DNA
; ORGANISM: Bovine 19866880906721
US-10-750-185-31181

Query Match          56.8%; Score 17.6; DB 6; Length 5239;
Best Local Similarity 83.3%; Pred. No. 2.1e+02;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 CTGCTGGCTGGGCTTGCAGGAT 29
   ||||| ||||| ||||| ||||| |||||
Db 1487 CTGCTGGCTTGGCCTCCAGGAT 1510

RESULT 38
US-10-750-623-31181
; Sequence 31181, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 31181
; LENGTH: 5239
; TYPE: DNA
; ORGANISM: Bovine 19866880906721
US-10-750-623-31181

Query Match          56.8%; Score 17.6; DB 6; Length 5239;
Best Local Similarity 83.3%; Pred. No. 2.1e+02;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 CTGCTGGCTGGGCTTGCAGGAT 29
   ||||| ||||| ||||| ||||| |||||
Db 1487 CTGCTGGCTTGGCCTCCAGGAT 1510

RESULT 39
US-10-995-561-13513/c
; Sequence 13513, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
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; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 13513
; LENGTH: 40000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1...(40000))
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13513

Query Match
Best Local Similarity 56.1%; Score 17.6; DB 6; Length 40000;
Matches 20; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 GGCTCTCTGGCTGGCTTGCAGG 27
Db 18813 GGCCCTGTTGCTTGGCTGCAAGG 18788

RESULT 40
US-10-750-185-59925
; Sequence 59925, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 59925
; LENGTH: 869
; TYPE: DNA
; ORGANISM: Bovine 19866881505414
US-10-750-185-59925

Query Match
Best Local Similarity 56.1%; Score 17.4; DB 6; Length 869;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 GGCTCTCTGGCTGGCTTGCAGGAT 29
Db 790 GGCTCTCTCAGTCTGGGCATCCAGGAT 816

RESULT 41
US-10-750-623-59925
; Sequence 59925, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
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; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 59925
; LENGTH: 869
; TYPE: DNA
; ORGANISM: Bovine 19866881505414
US-10-750-623-59925

Query Match
Best Local Similarity 56.1%; Score 17.4; DB 6; Length 869;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 3 GGCTCTCTGGCTGGCTTGCAGGAT 29
Db 790 GGCTCTCTCAGTCTGGGCATCCAGGAT 816

RESULT 42
US-10-750-185-34220
; Sequence 34220, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 34220
; LENGTH: 1285
; TYPE: DNA
; ORGANISM: Bovine 19866880632281
US-10-750-185-34220

Query Match
Best Local Similarity 56.1%; Score 17.4; DB 6; Length 1285;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4 GTCTCTCTGGCTGGCTTGCAGGATG 30
Db 995 GGCTGCTGGCTGCTGCTTCCAGGAGG 1021

RESULT 43
US-10-750-623-34220
; Sequence 34220, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
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/ SOFTWARE: PatentIN version 3.1
/ SEQ ID NO 34220
/ LENGTH: 1285
/ TYPE: DNA
/ ORGANISM: Bovine 19866880632281
US-10-750-623-34220

Query Match          56.1%; Score 17.4; DB 6; Length 1285;
Best Local Similarity 77.8%; Pred. No. 2.3e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 4 GTCTGCTGGCTGGCTGGCTGCAAGGATG 30
Db 995 GGCTGGCTGGCTGGCTGGCTTTCAGGAGG 1021

RESULT 44
US-10-750-185-40086
/ Sequence 40086, Application US/10750185
/ Publication No. US20050260603A1
/ GENERAL INFORMATION:
/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFELD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10750,185
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ PRIOR FILING DATE: 2002-12-31
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: PatentIN version 3.1
/ SEQ ID NO 40086
/ LENGTH: 2008
/ TYPE: DNA
/ ORGANISM: Bovine 19866880785382
US-10-750-185-40086

Query Match          56.1%; Score 17.4; DB 6; Length 2008;
Best Local Similarity 77.8%; Pred. No. 2.4e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGGCTGGCTGCAAGG 27
Db 407 GGAACCTGTCTGGCTGGCTGGCTATGCATGG 433

RESULT 45
US-10-750-623-40086
/ Sequence 40086, Application US/10750623
/ Publication No. US20050287531A1
/ GENERAL INFORMATION:
/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFELD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-1
/ CURRENT APPLICATION NUMBER: US/10750,623
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ PRIOR FILING DATE: 2002-12-31
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: PatentIN version 3.1
/ SEQ ID NO 40086
/ LENGTH: 2008
/ TYPE: DNA
/ ORGANISM: Bovine 19866880785382
US-10-750-623-40086

Query Match          56.1%; Score 17.4; DB 6; Length 2008;
Best Local Similarity 77.8%; Pred. No. 2.4e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGGCTGGCTGCAAGG 27
Db 407 GGAACCTGTCTGGCTGGCTGGCTATGCATGG 433

RESULT 46
US-11-124-368A-2896/c
/ Sequence 2896, Application US/11124368A
/ Publication No. US20050287559A1
/ GENERAL INFORMATION:
/ APPLICANT: Michele Cargill
/ APPLICANT: James J. Devlin
/ APPLICANT: May Luke
/ TITLE OF INVENTION: Genetic Polymorphisms Associated with
/ TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
/ FILE REFERENCE: CL001524
/ CURRENT APPLICATION NUMBER: US/11/124,368A
/ CURRENT FILING DATE: 2005-05-09
/ PRIOR APPLICATION NUMBER: US 60/568,845
/ PRIOR FILING DATE: 2004-05-07
/ PRIOR APPLICATION NUMBER: US 60/625,936
/ PRIOR FILING DATE: 2004-11-09
/ NUMBER OF SEQ ID NOS: 21112
/ SOFTWARE: FastSEQ for Windows Version 4.0
/ SEQ ID NO 2896
/ LENGTH: 91561
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17,
/ LOCATION: 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31,
/ LOCATION: 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45,
/ LOCATION: 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59,
/ LOCATION: 60
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75,
/ LOCATION: 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103,
/ LOCATION: 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126,
/ LOCATION: 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138,
/ LOCATION: 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150,
/ LOCATION: 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173,
/ LOCATION: 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185,
/ LOCATION: 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197,
/ LOCATION: 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220,
/ LOCATION: 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232,
/ LOCATION: 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244,
/ LOCATION: 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255
/ OTHER INFORMATION: n = A,T,C or G
/ FEATURE:
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; NAME/KEY: misc_feature
; LOCATION: 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267,
; LOCATION: 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279,
; LOCATION: 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291,
; LOCATION: 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302
; OTHER INFORMATION: n = A,T,C or G
US-11-124-368A-2896

Query Match          56.1%; Score 17.4; DB 7; Length 91561;
Best Local Similarity 77.8%; Pred. No. 2.9e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGGCTGGCTTGCAGGA 28
Db 46525 GGTTCGTCTGTCTGGCTTGCAGGA 46499

RESULT 47
US-10-995-561-13234/c
; Sequence 37203, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13234
; LENGTH: 93112
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(93112)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13234

Query Match          56.1%; Score 17.4; DB 6; Length 93112;
Best Local Similarity 77.8%; Pred. No. 2.9e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 GGGTCTGTCTGGCTGGCTTGCAGGA 28
Db 47311 GGTTCGTCTGTCTGGCTTGCAGGA 47285

RESULT 48
US-11-121-086-96/c
; Sequence 96, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KRISTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 96
; LENGTH: 139054
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-96

Query Match          56.1%; Score 17.4; DB 7; Length 139054;
Best Local Similarity 77.8%; Pred. No. 2.9e+02;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 5 TCTGTCTGTCTGGCTTGCAGGATGT 31
Db 92960 TCTGCCAGACTGGTCTCTGGGAAGGATGT 92934

Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

RESULT 49
US-10-995-561-37203/c
; Sequence 37203, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37203
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-37203

Query Match          55.5%; Score 17.2; DB 6; Length 201;
Best Local Similarity 73.3%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGGCTTGCAGGATG 30
Db 186 GGAGAGGGGCTGGCAGGCTTGGGAAGGATG 157

RESULT 50
US-10-995-561-37234/c
; Sequence 37234, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37234
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-37234

Query Match          55.5%; Score 17.2; DB 6; Length 201;
Best Local Similarity 73.3%; Pred. No. 2.6e+02;
Matches 22; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 GGGGTCTGTCTGGCTGGCTTGCAGGATG 30
Db 85 GGAGAGGGGCTGGCAGGCTTGGGAAGGATG 56

Search completed: January 11, 2006, 05:11:50
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OM nucleic - nucleic search, using sw model

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Sequence: 1 gctgagctgcagccacacctctctccag 31

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

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3: /cgn2\_6/prodata/1/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/prodata/1/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/prodata/1/ina/H\_COMB.seq:\*  
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7: /cgn2\_6/prodata/1/ina/PP\_COMB.seq:\*  
8: /cgn2\_6/prodata/1/ina/RE\_COMB.seq:\*  
9: /cgn2\_6/prodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	31	100.0	1254	3	US-10-085-612A-4
2	31	100.0	10394	3	US-09-949-016-14433
3	26.2	84.5	34172	3	US-09-949-016-14432
C 4	24.6	79.4	601	3	US-09-949-016-20240
C 5	24.6	79.4	601	3	US-09-949-016-42446
6	24.6	79.4	1345	3	US-09-372-339-1
7	24.6	79.4	1345	3	US-09-372-339-2
8	24.6	79.4	1345	3	US-09-144-367-3
9	24.6	79.4	1345	3	US-10-085-612A-3
10	24.6	79.4	31197	3	US-09-949-016-12963
11	24.6	79.4	35803	3	US-09-949-016-11863
12	24.6	79.4	35804	3	US-09-949-016-12962
C 13	23.6	76.1	795	3	US-09-795-926-47
C 14	23.6	76.1	795	3	US-10-364-774-47
C 15	23	74.2	1588	3	US-09-490-291-7
C 16	23	74.2	1852	3	US-09-969-852-4
C 17	23	74.2	2338	2	US-08-425-069-1
C 18	23	74.2	2338	2	US-08-317-844B-1
19	23	74.2	53394	3	US-09-949-016-15817
20	23	74.2	53394	3	US-09-949-016-15818
21	23	74.2	53394	3	US-09-949-016-15819
22	23	74.2	53394	3	US-09-949-016-15820
C 23	22.8	73.5	615	3	US-09-902-540-7688
C 24	22.8	73.5	5552	3	US-09-902-540-759













828	18.8	60.6	8174	3	US-09-042-531-5	Sequence 5, Appli	901	18.6	60.0	2214	3	US-09-489-847-113	Sequence 113, App
829	18.8	60.6	8174	6	PCT-US91-00899-3	Sequence 3, Appli	902	18.6	60.0	2227	3	US-09-489-847-30	Sequence 30, Appl
830	18.8	60.6	8553	3	US-09-949-016-13412	Sequence 13412, A	c 903	18.6	60.0	2253	3	US-09-252-991A-113	Sequence 113, App
831	18.8	60.6	8580	3	US-09-949-016-17224	Sequence 17224, A	c 904	18.6	60.0	2281	3	US-09-370-838-66	Sequence 66, Appl
832	18.8	60.6	8704	3	US-09-902-540-854	Sequence 854, App	905	18.6	60.0	2581	3	US-09-854-133-66	Sequence 66, Appl
833	18.8	60.6	8705	3	US-09-647-344A-14	Sequence 14, Appl	906	18.6	60.0	2664	3	US-09-252-991A-108	Sequence 108, App
834	18.8	60.6	9400	3	US-09-949-016-11801	Sequence 11801, A	c 907	18.6	60.0	2664	3	US-09-023-655-1215	Sequence 1215, App
835	18.8	60.6	9401	3	US-09-949-016-15269	Sequence 15269, A	c 908	18.6	60.0	5884	3	US-09-949-016-17129	Sequence 17129, A
836	18.8	60.6	9600	3	US-08-910-647-1	Sequence 1, Appli	c 909	18.6	60.0	7137	3	US-09-949-002-28	Sequence 28, Appl
837	18.8	60.6	9600	3	US-09-949-016-15481	Sequence 15481, A	c 910	18.6	60.0	7434	3	US-09-949-002-112	Sequence 112, App
838	18.8	60.6	10143	3	US-09-949-016-17414	Sequence 17414, A	c 911	18.6	60.0	10096	3	US-09-902-540-935	Sequence 935, App
839	18.8	60.6	10187	3	US-09-949-016-17081	Sequence 17081, A	c 912	18.6	60.0	12235	3	US-09-949-016-17360	Sequence 17360, A
840	18.8	60.6	10550	2	US-07-884-811-15	Sequence 15, Appl	c 913	18.6	60.0	26896	3	US-09-949-016-16800	Sequence 16800, A
841	18.8	60.6	10596	2	US-07-885-971-15	Sequence 15, Appl	c 914	18.6	60.0	34094	3	US-09-292-034-1	Sequence 1, Appli
842	18.8	60.6	10596	2	US-08-087-783A-15	Sequence 15, Appl	c 915	18.6	60.0	56678	3	US-09-949-016-17453	Sequence 17453, A
843	18.8	60.6	10596	2	US-08-194-088B-15	Sequence 15, Appl	c 916	18.6	60.0	69737	3	US-09-949-016-15140	Sequence 15140, A
844	18.8	60.6	10596	2	US-08-194-087-15	Sequence 15, Appl	c 917	18.6	60.0	80706	3	US-09-949-016-15347	Sequence 15347, A
845	18.8	60.6	10596	6	PCT-US93-04648-15	Sequence 15, Appl	c 918	18.6	60.0	85912	3	US-09-949-016-12362	Sequence 12362, A
846	18.8	60.6	10596	6	US-09-949-016-12198	Sequence 12198, A	c 919	18.6	60.0	85913	3	US-09-949-016-16109	Sequence 16109, A
847	18.8	60.6	12563	3	US-09-949-016-4982	Sequence 4982, App	c 920	18.6	60.0	72	3	US-09-097-767A-8	Sequence 8, Appli
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892	18.6	60.0	521	3	US-09-270-767-1737	Sequence 1737, App	c 965	18.6	60.0	828	3	US-09-451-527-28	Sequence 28, Appl
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c 996 18.4 59.4 999 3 US-10-020-445A-394 Sequence 394, Appl  
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## ALIGNMENTS

RESULT 1  
US-10-085-612A-4  
; Sequence 4, Application US/10085612A  
; Patent No. 6929912  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Vredenburgh, James  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS  
; FILE REFERENCE: DNA-S-C1  
; CURRENT APPLICATION NUMBER: US/10/085.612A  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 4  
; LENGTH: 1254  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612A-4

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Best Local Similarity 100.0%; Pred. No. 0.15;  
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US-09-949-016-14433  
; Sequence 14433, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
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; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14433  
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; TYPE: DNA  
; ORGANISM: Human  
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; NAME/KEY: misc feature  
; LOCATION: (1)..(103934)  
; OTHER INFORMATION: n = A, T, C or G  
US-09-949-016-14433

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; Sequence 14432, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
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; ORGANISM: Human  
US-09-949-016-14432

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; Sequence 20240, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.



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; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
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; ORGANISM: Human
US-09-949-016-42446

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RESULT 5
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; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
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; SEQ ID NO 42446
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US-09-949-016-42446

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Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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RESULT 6
US-09-372-339-1
; Sequence 1, Application US/09372339
; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; CURRENT FILING DATE: 1999-08-11
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; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-372-339-1

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RESULT 7
US-09-372-339-2
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; Patent No. 6174684
; GENERAL INFORMATION:
; APPLICANT: Rebbeck, Timothy
; APPLICANT: Felix, Carolyn
; TITLE OF INVENTION: CYP3A4 NFSE Variant and Methods of Use Therefor
; FILE REFERENCE: PENN-0695
; CURRENT APPLICATION NUMBER: US/09/372,339
; CURRENT FILING DATE: 1999-08-11
; EARLIER APPLICATION NUMBER: 60/096,586
; EARLIER FILING DATE: 1998-08-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
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; ORGANISM: Homo sapiens
US-09-372-339-2

Query Match          79.4%; Score 24.6; DB 3; Length 1345;
Best Local Similarity 87.1%; Pred. No. 21;
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RESULT 8
US-09-144-367-3
; Sequence 3, Application US/09144367
; Patent No. 6432639
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/09/144,367
; CURRENT FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/058,612
; PRIOR FILING DATE: 1997-09-10
; NUMBER OF SEQ ID NOS: 58
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; SEQ ID NO 3
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; NAME/KEY: Other
; LOCATION: (0)...(0)
US-09-144-367-3
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Best Local Similarity 87.1%; Pred. No. 21;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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RESULT 9
US-10-085-612A-3
; Sequence 3, Application US/10085612A
; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-C1
; CURRENT APPLICATION NUMBER: US/10/085.612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612A-3

Query Match      79.4%; Score 24.6; DB 3; Length 1345;
Best Local Similarity 87.1%; Pred. No. 21;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db      1043 GCTGCAGCTCCAGCCCTGCTCTCTCTAG 1073

RESULT 10
US-09-949-016-12963
; Sequence 12963, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12963
; LENGTH: 3197
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12963

Query Match      79.4%; Score 24.6; DB 3; Length 31197;
Best Local Similarity 87.1%; Pred. No. 28;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db      1940 GCTGCAGCTCCAGCCCTGCTCTCTCTAG 1970
```

## RESULT 11

```
US-09-949-016-11863
; Sequence 11863, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11863
; LENGTH: 35803
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11863
```

```
Query Match      79.4%; Score 24.6; DB 3; Length 35803;
Best Local Similarity 87.1%; Pred. No. 28;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db      1924 GCTGCAGCTATAGCCCTGCTCTCTCTCCAG 1954
```

## RESULT 12

```
US-09-949-016-12962
; Sequence 12962, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12962
; LENGTH: 35804
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12962
```

```
Query Match      79.4%; Score 24.6; DB 3; Length 35804;
Best Local Similarity 87.1%; Pred. No. 28;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GCTGCAGCTGCAGCCGCCACCTCTCTCCAG 31
Db      1924 GCTGCAGCTATAGCCCTGCTCTCTCTCCAG 1954
```

## RESULT 13

US-09-795-926-47/c  
; Sequence 47, Application US/09795926  
; Patent No. 6555669  
; GENERAL INFORMATION:  
; APPLICANT: Donoho, Gregory  
; APPLICANT: Hilbun, Erin  
; APPLICANT: Turner, C. Alexander Jr.  
; APPLICANT: Friedrich, Glenn  
; APPLICANT: Abuin, Alejandro  
; APPLICANT: Zambrowicz, Brian  
; APPLICANT: Sands, Arthur T.  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Wilganowski, Nathaniel L.  
; APPLICANT: Hu, Yi  
; APPLICANT: Kieke, James Alvin  
; APPLICANT: Potter, David George  
; TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND  
; FILE REFERENCE: LEX-0144-USA  
; CURRENT APPLICATION NUMBER: US/09795,926  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: US 60/185,920  
; PRIOR FILING DATE: 2000-02-29  
; PRIOR APPLICATION NUMBER: US 60/186,558  
; PRIOR FILING DATE: 2000-03-02  
; PRIOR APPLICATION NUMBER: US 60/191,849  
; PRIOR FILING DATE: 2000-03-24  
; NUMBER OF SEQ ID NOS: 47  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 47  
; LENGTH: 795  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-09-795-926-47

Query Match 76.1%; Score 23.6; DB 3; Length 795;  
Best Local Similarity 86.7%; Pred. No. 44;  
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCCA 30  
Db 133 GCTTCAGCGCCAGCCCACTCTCTCCCA 104

## RESULT 14

US-10-364-774-47/c  
; Sequence 47, Application US/10364774  
; Patent No. 6929937  
; GENERAL INFORMATION:  
; APPLICANT: Donoho, Gregory  
; APPLICANT: Hilbun, Erin  
; APPLICANT: Turner, C. Alexander Jr.  
; APPLICANT: Friedrich, Glenn  
; APPLICANT: Abuin, Alejandro  
; APPLICANT: Zambrowicz, Brian  
; APPLICANT: Sands, Arthur T.  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Wilganowski, Nathaniel L.  
; APPLICANT: Hu, Yi  
; APPLICANT: Kieke, James Alvin  
; APPLICANT: Potter, David George  
; TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND  
; FILE REFERENCE: LEX-0144-USA  
; CURRENT APPLICATION NUMBER: US/10/364,774  
; CURRENT FILING DATE: 2003-02-11  
; PRIOR APPLICATION NUMBER: US/09/795,926  
; PRIOR FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: US 60/185,920  
; PRIOR FILING DATE: 2000-02-29  
; PRIOR APPLICATION NUMBER: US 60/186,558

; PRIOR FILING DATE: 2000-03-02  
; PRIOR APPLICATION NUMBER: US 60/191,849  
; PRIOR FILING DATE: 2000-03-24  
; NUMBER OF SEQ ID NOS: 47  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 47  
; LENGTH: 795  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-10-364-774-47

Query Match 76.1%; Score 23.6; DB 3; Length 795;  
Best Local Similarity 86.7%; Pred. No. 44;  
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCCA 30  
Db 133 GCTTCAGCGCCAGCCCACTCTCTCCCA 104

## RESULT 15

US-09-490-291-7/c  
; Sequence 7, Application US/09490291  
; Patent No. 6620917  
; GENERAL INFORMATION:  
; APPLICANT: Mello, Charlene M.  
; APPLICANT: Arcidiacono, Steven  
; TITLE OF INVENTION: No. 6620917el Purification and Fiber Spinning Techniques for  
; TITLE OF INVENTION: Protein Fibers  
; FILE REFERENCE: ARMY-03665  
; CURRENT APPLICATION NUMBER: US/09/490,291  
; CURRENT FILING DATE: 2000-01-20  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 7  
; LENGTH: 1588  
; TYPE: DNA  
; ORGANISM: Nephila clavipes  
US-09-490-291-7

Query Match 74.2%; Score 23; DB 3; Length 1588;  
Best Local Similarity 83.9%; Pred. No. 74;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31  
Db 1121 GCTGCAGCGCTGCTCCAGCTCTCTCTCCAG 1091

## RESULT 16

US-09-969-852-4/c  
; Sequence 4, Application US/09969852  
; Patent No. 6872869  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Tianyan  
; APPLICANT: Liu, Huifen  
; APPLICANT: Li, Wei  
; APPLICANT: Zhao, Libin  
; TITLE OF INVENTION: A METHOD FOR ESTABLISHING AN EXPRESSION SYSTEM OF SPIDER DRAGLINE  
; FILE REFERENCE: LIU=65  
; FILE REFERENCE: LIU=65  
; CURRENT APPLICATION NUMBER: US/09/969,852  
; CURRENT FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: CN01106406.4  
; PRIOR FILING DATE: 2001-01-02  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 4  
; LENGTH: 1852  
; TYPE: DNA  
; ORGANISM: Nephila clavipes  
US-09-969-852-4

Query Match 74.2%; Score 23; DB 3; Length 1852;  
 Best Local Similarity 83.9%; Pred. No. 75;  
 Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCACCTCTCTCCAG 31  
 |||||  
 Db 1376 GCTGCAGCGGCTGCTCCAGCTCTTGTCCAG 1346

RESULT 17  
 US-08-425-069-1/c  
 ; Sequence 1, Application US/08425069  
 ; Patent No. 5728810  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lewis, Randolph V.  
 ; APPLICANT: Xu, Ming  
 ; APPLICANT: Hinman, Michael B.  
 ; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK  
 ; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL  
 ; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF  
 ; NUMBER OF SEQUENCES: 69  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
 ; STREET: 301 No. 5728810th Washington Street  
 ; CITY: Falls Church  
 ; STATE: Virginia  
 ; COUNTRY: U.S.A.  
 ; ZIP: 22046  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/425,069  
 ; FILING DATE: 19-APR-1995  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Murphy Jr., Gerald M  
 ; REGISTRATION NUMBER: 28,977  
 ; REFERENCE/DOCKET NUMBER: 1447-106P  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (703) 205-8000  
 ; TELEFAX: (703) 205-8050  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 1:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 2338 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; HYPOTHETICAL: NO  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Nephilia clavipes  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 1..2154  
 ; OTHER INFORMATION: /product= "Nephila clavipes  
 ; OTHER INFORMATION: dragline silk protein"  
 ; PUBLICATION INFORMATION:  
 ; AUTHORS: Xu, Ming  
 ; AUTHORS: Lewis, Randolph V.  
 ; TITLE: Structure of a protein superfiber: Spider  
 ; TITLE: dragline silk  
 ; JOURNAL: Proc. Natl. Acad. Sci. U.S.A.  
 ; VOLUME: 87  
 ; PAGES: 7120-7124  
 ; DATE: Sept.-1990  
 ; RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2338

US-08-425-069-1  
 Query Match 74.2%; Score 23; DB 2; Length 2338;

Best Local Similarity 83.9%; Pred. No. 76;  
 Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCACCTCTCTCCAG 31  
 |||||  
 Db 1697 GCTGCAGCGGCTGCTCCAGCTCTTGTCCAG 1667

RESULT 18  
 US-08-317-844B-1/c  
 ; Sequence 1, Application US/08317844B  
 ; Patent No. 5989894  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lewis, Randolph V.  
 ; APPLICANT: Xu, Ming  
 ; APPLICANT: Hinman, Michael B.  
 ; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK  
 ; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL  
 ; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF  
 ; NUMBER OF SEQUENCES: 62  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
 ; STREET: 301 No. 5989894th Washington Street  
 ; CITY: Falls Church  
 ; STATE: Virginia  
 ; COUNTRY: U.S.A.  
 ; ZIP: 22046  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/317,844B  
 ; FILING DATE: 04-OCT-1994  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Murphy Jr., Gerald M  
 ; REGISTRATION NUMBER: 28,977  
 ; REFERENCE/DOCKET NUMBER: 1447-105P  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (703) 241-1300  
 ; TELEFAX: (703) 241-2848  
 ; TELEX: 248345  
 ; INFORMATION FOR SEQ ID NO: 1:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 2338 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; HYPOTHETICAL: NO  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Nephilia clavipes  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 1..2154  
 ; OTHER INFORMATION: /product= "Nephila clavipes  
 ; OTHER INFORMATION: dragline silk protein"  
 ; PUBLICATION INFORMATION:  
 ; AUTHORS: Xu, Ming  
 ; AUTHORS: Lewis, Randolph V.  
 ; TITLE: Structure of a protein superfiber: Spider  
 ; TITLE: dragline silk  
 ; JOURNAL: Proc. Natl. Acad. Sci. U.S.A.  
 ; VOLUME: 87  
 ; PAGES: 7120-7124  
 ; DATE: Sept.-1990  
 ; RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2338

US-08-317-844B-1  
 Query Match 74.2%; Score 23; DB 2; Length 2338;  
 Best Local Similarity 83.9%; Pred. No. 76;

```
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
Db 1697 GCTGCAGCGCTGCTCCAGCTCTCTGTCAG 1667

RESULT 19
US-09-949-016-15817
; Sequence 15817, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15817
; LENGTH: 53394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(53394)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15817

Query Match 74.2%; Score 23; DB 3; Length 53394;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
Db 52595 GCTCCAGTCCAGCCCACTCTCTCCAG 52625

RESULT 20
US-09-949-016-15818
; Sequence 15818, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15818
; LENGTH: 53394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(53394)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15818

Query Match 74.2%; Score 23; DB 3; Length 53394;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
Db 52595 GCTCCAGTCCAGCCCACTCTCTCCAG 52625

RESULT 21
US-09-949-016-15819
; Sequence 15819, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15819
; LENGTH: 53394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(53394)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15819

Query Match 74.2%; Score 23; DB 3; Length 53394;
Best Local Similarity 83.9%; Pred. No. 1e+02;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31
Db 52595 GCTCCAGTCCAGCCCACTCTCTCCAG 52625

RESULT 22
US-09-949-016-15820
; Sequence 15820, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15820
; LENGTH: 53394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
```

; LOCATION: (1)...(53394)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-15820

Query Match	74.2%	Score 23;	DB 3;	Length 53394;
Best Local Similarity	83.9%	Pred. No. 1e+02;		
Matches	26;	Conservative	0;	Mismatches 5;
				Indels 0;
				Gaps 0;

**Qy** 1 GCTGAGTGCAGGCCACCTCCTTCCAG 31  
||| ||| ||| ||| ||| ||| ||| |||  
**D6** 52595 GCTCCAGTTCAGGCCAGTCCAGTCCAG 52625

```

RESULT 23
US-09-902-540-7688/c
; Sequence 7688, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 7688
; LENGTH: 615
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-7688

```

Query Match	73.5%	Score 22.8;	DB 3;	Length 615;
Best Local Similarity	92.3%;	Pred. No. 79;		
Matches 24:	Conservative	0:	Mismatches	2:
	Indels	0:	Gaps	0:

**Qy**

4 GCAGCTGCAGCCCCACCTCCTTCTCC 29  
||||| ||||| ||||| ||||| ||||| |||||

**Dβ**

70 GCAGCAGCAGCGCCACCTCCTTCTCC 45  
||||| ||||| ||||| ||||| ||||| |||||

```

RESULT 24
US-09-902-540-759/c
Sequence 759, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wisegrad, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Gen
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 759
LENGTH: 5552
TYPE: DNA
ORGANISM: Myxococcus xanthus
US-09-902-540-759

```

Query Match	73.5%	Score	22.8;	DB	3;	Length	5552;
Best Local Similarity	92.3%;	Pred. No.	96;				
Matches	24;	Conservative	0;	Mismatches	2;	Indels	0;
						Gaps	0;

Qy 4 GCAGCTGCAGCCCCACCTCTCTCC 29  
 |||||  
 2640 GCAGCAGCAGCGCCACCTCTCTCC 2615  
 pb

```

RESULT 25
US-09-270-767-13706
; Sequence 13706, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCES: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13706
; LENGTH: 3246
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-13706

```

Query Match	71.6%	Score 22.2;	DB 3;	Length 3246;
Best Local Similarity	88.9%	Pred. No. 1.5e+02;		
Matches	24:	Conservative	3:	Indels 0:
		Mismatches	3:	Gaps 0:

QY  
4 GCAGCTGCAGCCCCCACCTCCTTCTCCA 30

nB  
317 GCAGCTGCAGGGCGCATTCCTTCTCCA 343

RESULT 26  
US-10-085-612A-23  
; Sequence 23, Application US/10085612A  
; Patent No. 6929912  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Vredenburgh, James  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS  
; FILE REFERENCE: DNA-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612A  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 23  
; LENGTH: 22  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612A-23

Query Match	71.0%;	Score 22;	DB 3;	Length 22;
Best Local Similarity	100.0%;	Pred. No. 1.1e+02;		
Matches 22:	Conservative	0;	Mismatches 0;	Indels 0;
				Gaps 0;

Qy 8 CTGCAGCCCCCACCTCCTCTCTCC 29  
|||  
pb 1 CTGCAGCCCCCACCTCCTCTCTCC 22  
|||

RESULT 27  
US-09-949-016-27173  
; Sequence 27173, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN K  
; TITLE OF INVENTION: WITH HUMAN DISEAS







```
; LENGTH: 23394
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(23394)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17131

Query Match          69.7%; Score 21.6; DB 3; Length 23394;
Best Local Similarity 85.7%; Pred. No. 2.7e+02;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy  4 GCAGCTGCAGCCCACTCTCTTCCAG 31
Db  20957 GCAGCCCACTCCCACTCCATCTCCAG 20984

RESULT 36
US-09-949-002-674
; Sequence 674, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 674
; LENGTH: 185765
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-674

Query Match          69.7%; Score 21.6; DB 3; Length 185765;
Best Local Similarity 85.7%; Pred. No. 3.2e+02;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy  2 CTGCAGCTGCAGCCCACTCTCTTCTCC 29
Db  127482 CTGCATCTCCAGCTCACCCTGCTTCTCC 127509

RESULT 37
US-09-949-002-707
; Sequence 707, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 707
; LENGTH: 185766
; TYPE: DNA
; ORGANISM: Human
US-09-949-002-707

Query Match          69.7%; Score 21.6; DB 3; Length 185766;
Best Local Similarity 85.7%; Pred. No. 3.2e+02;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy  2 CTGCAGCTGCAGCCCACTCTCTTCTCC 29
Db  127482 CTGCATCTCCAGCTCACCCTGCTTCTCC 127509

RESULT 38
US-08-209-747-13/c
; Sequence 13, Application US/08209747
; Patent No. 5733771
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Colgin, Mark
; TITLE OF INVENTION: CDNAs Encoding Minor Ampullate Spider
; TITLE OF INVENTION: Silk Proteins
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-3487
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/209,747
; FILING DATE: 14-MAR-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-104P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 144 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: N. clavipes
; TISSUE TYPE: minor ampullate gland
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..144
; OTHER INFORMATION: /label= cloned cDNA
; OTHER INFORMATION: /note= "partial sequence of pMISS3, 11-2 template,
; OTHER INFORMATION: forward primer"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..144
; OTHER INFORMATION: /product= "translation of pMISS3
; OTHER INFORMATION: partial sequence"
US-08-209-747-13

Query Match          69.0%; Score 21.4; DB 2; Length 144;
Best Local Similarity 80.6%; Pred. No. 2e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy  1 GCTGCAGCTGCAGCCCACTCTCTTCTCCAG 31
Db  56 GCGGCTGCAGCAGCACCAGCTCTGCTCCAG 26

RESULT 39
```

```

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 11526
; LENGTH: 522
; TYPE: DNA
; ORGANISM: Candida albicans
; US-09-248-796A-11526

Query Match          69.0%; Score 21.4; DB 3; Length 522;
Best Local Similarity 80.6%; Pred. No. 2.3e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1  GCTGCAGCTGCAGCCCCACCTCTCTTCTCCAG 31
      ||| ||||| ||||| ||||| ||||| |||||
Db      187  GCTCCAGCTCCAGCTCCAGCTCCAGCTCCAGCTCCAG 217

RESULT 41
US-09-775-398-81/c
; Sequence 81, Application US/09775398
; Patent No. 6893820
; GENERAL INFORMATION:
; APPLICANT: Plass, Christoph
; TITLE OF INVENTION: Detection of Methylated CpG Rich Sequences Diagnostic for Maligna
; FILE REFERENCE: 23727/04075
; CURRENT APPLICATION NUMBER: US/09/775,398
; CURRENT FILING DATE: 2001-01-04
; NUMBER OF SEQ ID NOS: 90
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 81
; LENGTH: 746
; TYPE: DNA
; ORGANISM: Homo sapiens 5.E.25
; FEATURE:
; NAME/KEY: n
; LOCATION: (695)..(695)
; OTHER INFORMATION: a o r g o r c o t
US-09-775-398-81

Query Match          69.0%; Score 21.4; DB 3; Length 746;
Best Local Similarity 80.6%; Pred. No. 2.4e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1  GCTGCAGCTGCAGCCCCACCTCTCTTCTCCAG 31
      ||| ||||| ||||| ||||| ||||| |||||
Db      561  GCAGCAGCAGCAGCTCCAGCTCCAGCTCCAGCTCCAG 531

RESULT 42
US-09-543-681A-1007
; Sequence 1007, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 1007
; LENGTH: 1029
; TYPE: DNA

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; ORGANISM: Proteus mirabilis
US-09-543-681A-1007

Query Match          69.0%; Score 21.4; DB 3; Length 1029;
Best Local Similarity 80.6%; Pred. No. 2.4e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
Db 742 GCTCCAGCTCCAGCTCCAGCTCCAGCTCCAG 772

RESULT 43
US-09-927-267-3/c
; Sequence 3, Application US/09927267
; Patent No. 6933147
; GENERAL INFORMATION:
; APPLICANT: Creech, Christopher D.
; APPLICANT: Jegla, Timothy J.
; APPLICANT: ICAGEN, Inc.
; TITLE OF INVENTION: Channel
; FILE REFERENCE: 018512-006510US
; CURRENT APPLICATION NUMBER: US/09/927,267
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/226,253
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1728
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)
; OTHER INFORMATION: coding sequence
; NAME/KEY: CDS
; LOCATION: (1)..(1728)
; OTHER INFORMATION: CNG2B
US-09-927-267-3

Query Match          69.0%; Score 21.4; DB 3; Length 1728;
Best Local Similarity 80.6%; Pred. No. 2.5e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
Db 1096 GCTGCAGCTTCAGCACCAGCTCTCTCCAG 1066

RESULT 44
US-09-927-267-2/c
; Sequence 2, Application US/09927267
; Patent No. 6933147
; GENERAL INFORMATION:
; APPLICANT: Creech, Christopher D.
; APPLICANT: Jegla, Timothy J.
; APPLICANT: ICAGEN, Inc.
; TITLE OF INVENTION: Channel
; FILE REFERENCE: 018512-006510US
; CURRENT APPLICATION NUMBER: US/09/927,267
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/226,253
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 2308
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)

; ORGANISM: Proteus mirabilis
US-09-543-681A-1007

Query Match          69.0%; Score 21.4; DB 3; Length 1029;
Best Local Similarity 80.6%; Pred. No. 2.4e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
Db 742 GCTCCAGCTCCAGCTCCAGCTCCAGCTCCAG 772

RESULT 43
US-09-927-267-3/c
; Sequence 3, Application US/09927267
; Patent No. 6933147
; GENERAL INFORMATION:
; APPLICANT: Creech, Christopher D.
; APPLICANT: Jegla, Timothy J.
; APPLICANT: ICAGEN, Inc.
; TITLE OF INVENTION: Channel
; FILE REFERENCE: 018512-006510US
; CURRENT APPLICATION NUMBER: US/09/927,267
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/226,253
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1728
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)
; OTHER INFORMATION: coding sequence
; NAME/KEY: CDS
; LOCATION: (1)..(1728)
; OTHER INFORMATION: CNG2B
US-09-927-267-3

Query Match          69.0%; Score 21.4; DB 3; Length 1728;
Best Local Similarity 80.6%; Pred. No. 2.5e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
Db 1096 GCTGCAGCTTCAGCACCAGCTCTCTCCAG 1066

RESULT 44
US-09-927-267-2/c
; Sequence 2, Application US/09927267
; Patent No. 6933147
; GENERAL INFORMATION:
; APPLICANT: Creech, Christopher D.
; APPLICANT: Jegla, Timothy J.
; APPLICANT: ICAGEN, Inc.
; TITLE OF INVENTION: Channel
; FILE REFERENCE: 018512-006510US
; CURRENT APPLICATION NUMBER: US/09/927,267
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 60/226,253
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 2308
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: cyclic nucleotide-gated cation channel 2B (CNG2B)

; OTHER INFORMATION: complete nucleotide sequence derived from assembly
; NAME/KEY: CDS
; LOCATION: (333)..(2060)
; OTHER INFORMATION: CNG2B
US-09-927-267-2

Query Match          69.0%; Score 21.4; DB 3; Length 2308;
Best Local Similarity 80.6%; Pred. No. 2.6e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
Db 1428 GCTGCAGCTTCAGCACCAGCTCTCTCCAG 1398

RESULT 45
US-09-799-451-351/c
; Sequence 351, Application US/09799451
; Patent No. 6783969
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Zhou, Ping
; APPLICANT: Goodrich, Ryle
; APPLICANT: Asundi, Vinod
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhang, Jie
; APPLICANT: Xue, Aidong J.
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Ma, Yungqing
; APPLICANT: Yamazaki, Victoria
; APPLICANT: Chen, Rui-hong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wang, Dunrui
; APPLICANT: Yang, Yonghong
; APPLICANT: Wehrman, Tom
; APPLICANT: Ghosh, Reena
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6783969el Nucleic Acids and
; FILE REFERENCE: Polypeptides
; CURRENT APPLICATION NUMBER: US/09/799,451
; CURRENT FILING DATE: 2001-03-05
; NUMBER OF SEQ ID NOS: 948
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 351
; LENGTH: 2366
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (639)..(2363)
US-09-799-451-351

Query Match          69.0%; Score 21.4; DB 3; Length 2366;
Best Local Similarity 80.6%; Pred. No. 2.6e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31
Db 1734 GCTGCAGCTTCAGCACCAGCTCTCTCCAG 1704

RESULT 46
US-09-270-767-13149/c
; Sequence 13149, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
```

; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 13149  
; LENGTH: 2760  
; TYPE: DNA  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-13149

Query Match 69.0%; Score 21.4; DB 3; Length 2760;  
Best Local Similarity 80.6%; Pred. No. 2.7e+02;  
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31  
Db 178 GCTGCACACAGCTCCAGCTCTCTCCAG 148

## RESULT 47

US-07-646-537B-1  
; Sequence 1, Application US/07646537B  
; Patent No. 5348664  
; GENERAL INFORMATION:  
; APPLICANT: Barbacid, Mariano  
; TITLE OF INVENTION: Vav Proto-Oncogene Protein  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bristol-Myers Squibb Company  
; STREET: P.O. Box 4000  
; CITY: Princeton  
; STATE: New Jersey  
; COUNTRY: U.S.A.  
; ZIP: 08543-4000  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA: US/07646,537B  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Gaul, Timothy J.  
; REGISTRATION NUMBER: 33,111  
; REFERENCE/DOCKET NUMBER: DC10  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (609) 921-5901  
; TELEFAX: (609) 921-4526  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2793 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHETICAL: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 14..2545  
US-07-646-537B-1

Query Match 69.0%; Score 21.4; DB 2; Length 2793;  
Best Local Similarity 80.6%; Pred. No. 2.7e+02;  
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31  
Db 1004 GCGGGTCTGAAGTACACACCTCTCTCCAG 1034

## RESULT 48

US-09-949-016-16870/c

; Sequence 16870, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 16870  
; LENGTH: 13261  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-16870

Query Match 69.0%; Score 21.4; DB 3; Length 13261;  
Best Local Similarity 80.6%; Pred. No. 3e+02;  
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31  
Db 8772 GCTGCAGCCCGACCTCTCTCTCCAG 8742

## RESULT 49

US-09-949-016-12147  
; Sequence 12147, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12147  
; LENGTH: 767677  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(767677)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-12147

Query Match 69.0%; Score 21.4; DB 3; Length 767677;  
Best Local Similarity 80.6%; Pred. No. 4e+02;  
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCGACCTCTCTCCAG 31  
Db 353885 GCTACAGCAGCAGCCCGACCTCTCTCCAG 353915

## RESULT 50

US-09-949-016-17361  
; Sequence 17361, Application US/09949016



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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:01:19 ; Search time 593.071 Seconds  
(without alignments)  
432.243 Million cell updates/sec

Title: US-09-869-169c-19\_COPY\_1180\_1210

Perfect score: 31

Sequence: 1 gctgcagctgcagcccccactctctccag 31

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

Published Applications NA\_Main:\*

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- 2: /cgn2\_6/prodata/1/pubpna/US08\_PUBCOMB.seq:\*
- 3: /cgn2\_6/prodata/1/pubpna/US09A\_PUBCOMB.seq:\*
- 4: /cgn2\_6/prodata/1/pubpna/US09B\_PUBCOMB.seq:\*
- 5: /cgn2\_6/prodata/1/pubpna/US10A\_PUBCOMB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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8	26.2	84.5	96960	8	US-10-484-577-662
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11	24.6	79.4	1345	5	US-10-085-612-3
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23	23	74.2	634	8	US-10-425-115-34631

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c 165	21.2	68.4	362	5	US-10-062-727-274	Sequence 274, App	c 238	21	67.7	2343	8	US-10-926-684-652	Sequence 652, App
c 166	21.2	68.4	432	5	US-10-062-727-272	Sequence 272, App	c 239	21	67.7	2343	8	US-10-926-684-652	Sequence 652, App
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c 168	21.2	68.4	435	5	US-10-062-727-340	Sequence 340, App	c 241	21	67.7	2368	7	US-10-741-601-232	Sequence 232, App
c 169	21.2	68.4	438	5	US-10-062-727-344	Sequence 344, App	c 242	21	67.7	2368	8	US-10-741-600-671	Sequence 671, App
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; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1
; FILE REFERENCE: P2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; PRIOR FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
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; LENGTH: 96960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-662

Query Match      94.8%; Score 29.4; DB 8; Length 96960;
Best Local Similarity 96.8%; Pred. No. 0.45;
Matches 30; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31
Db 93454 GCTGCAGCTGCAGCCCCCGCTCTCTCCAG 93484

RESULT 5
US-09-957-997-4
; Sequence 4, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1012
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-957-997-4

Query Match      84.5%; Score 26.2; DB 3; Length 1012;
Best Local Similarity 90.3%; Pred. No. 8.3;
Matches 28; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31
Db 955 GCTGCAGCTGCAGCCCCGCTCTCTCCAG 985

RESULT 6
US-09-957-997-1
; Sequence 1, Application US/09957997
; Patent No. US20020150915A1
; GENERAL INFORMATION:
; APPLICANT: Berkenstam, Anders
; APPLICANT: Bertilsson, Gran
```

```
; APPLICANT: Blomquist, Patrik
; TITLE OF INVENTION: PROMOTER SEQUENCES
; FILE REFERENCE: 13425-046001
; CURRENT APPLICATION NUMBER: US/09/957,997
; CURRENT FILING DATE: 2001-09-21
; EARLIER APPLICATION NUMBER: SE 0003393-6
; EARLIER FILING DATE: 2000-09-22
; EARLIER APPLICATION NUMBER: 60/238,895
; EARLIER FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-957-997-1

Query Match      84.5%; Score 26.2; DB 3; Length 11186;
Best Local Similarity 90.3%; Pred. No. 6.8;
Matches 28; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31
Db 11072 GCTGCAGCTGCAGCCCTGCTCTCTCCAG 11102

RESULT 7
US-10-415-607-4
; Sequence 4, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
; FILE REFERENCE: A-72251/RFT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01/01407
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 11186
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-4

Query Match      84.5%; Score 26.2; DB 9; Length 11186;
Best Local Similarity 90.3%; Pred. No. 6.8;
Matches 28; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31
Db 11072 GCTGCAGCTGCAGCCCTGCTCTCTCCAG 11102

RESULT 8
US-10-484-577-662/c
; Sequence 662, Application US/10484577
; Publication No. US20050032724A1
; GENERAL INFORMATION:
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1
; FILE REFERENCE: P2285PCT-1
; CURRENT APPLICATION NUMBER: US/10/484,577
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: EP 02011710.7
; PRIOR FILING DATE: 2002-05-24
```



```
; NUMBER OF SEQ ID NOS: 683
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 662
; LENGTH: 96960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-484-577-662

Query Match      84.5%; Score 26.2; DB 8; Length 96960;
Best Local Similarity 90.3%; Pred. No. 5.7;
Matches 28; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCTCCAG 31
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      18155 GCTGCCGCTGTAGACCCACCTCTCTTCTCCAG 18125

RESULT 9
US-09-943-115A-1
; Sequence 1, Application US/09943115A
; Publication No. US20030017469A1
; GENERAL INFORMATION:
; APPLICANT: SEQUENOM, Inc.
; APPLICANT: Risinger, Carl
; APPLICANT: Andersson, Maria
; APPLICANT: Lewander, Tommy
; APPLICANT: Olaisson, Erik
; TITLE OF INVENTION: DETECTION OF CYP3A4 AND CYP2C9
; TITLE OF INVENTION: POLYMORPHISMS
; FILE REFERENCE: 52459-20021.00
; CURRENT APPLICATION NUMBER: US/09/943.115A
; CURRENT FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: UK 0021286.0
; PRIOR FILING DATE: 2000-08-30
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-943-115A-1

Query Match      79.4%; Score 24.6; DB 3; Length 1345;
Best Local Similarity 87.1%; Pred. No. 29;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCTCCAG 31
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      1043 GCTGCAGCTCCAGCCCTGCGCTCTCTCTCTAG 1073

RESULT 10
US-10-146-575-3
; Sequence 3, Application US/10146575
; Publication No. US20030059800A1
; GENERAL INFORMATION:
; APPLICANT: Lichter, Jay
; APPLICANT: Guido, Marco
; TITLE OF INVENTION: GENOTYPING OF HUMAN CYP3A4
; FILE REFERENCE: SEQ-12P
; CURRENT APPLICATION NUMBER: US/10/146.575
; CURRENT FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: US/09/144,367
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
; NAME/KEY: Other
; LOCATION: (0)...(0)
```

```
US-10-146-575-3

Query Match      79.4%; Score 24.6; DB 5; Length 1345;
Best Local Similarity 87.1%; Pred. No. 29;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCTCCAG 31
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      1043 GCTGCAGCTCCAGCCCTGCGCTCTCTCTCTAG 1073

RESULT 11
US-10-085-612-3
; Sequence 3, Application US/10085612
; Publication No. US20030096251A1
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Vredenburgh, James
; APPLICANT: Colvin, Oliver
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals
; TITLE OF INVENTION: Compositions Therefor
; FILE REFERENCE: 4389-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 1345
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-3

Query Match      79.4%; Score 24.6; DB 5; Length 1345;
Best Local Similarity 87.1%; Pred. No. 29;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GCTGCAGCTGCAGCCCGCCACCTCTCTTCTCCAG 31
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      1043 GCTGCAGCTCCAGCCCTGCGCTCTCTCTCTAG 1073

RESULT 12
US-10-415-607-1
; Sequence 1, Application US/10415607
; Publication No. US20050076397A1
; GENERAL INFORMATION:
; APPLICANT: Liddle, Christopher
; APPLICANT: Goodwin, Bryan J.
; APPLICANT: Robertson, Graham
; TITLE OF INVENTION: P450 GENE REGULATION
; FILE REFERENCE: A-72251/RFT
; CURRENT APPLICATION NUMBER: US/10/415,607
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/AU01/01407
; PRIOR FILING DATE: 2001-11-01
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 12983
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-415-607-1

Query Match      79.4%; Score 24.6; DB 9; Length 12983;
Best Local Similarity 87.1%; Pred. No. 24;
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```



QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31  
|||||  
Db 12866 GCTGCAGCTCCAGCCCTGCTCTCTCTAG 12896

## RESULT 13

US-10-121-960C-14  
; Sequence 14, Application US/10121960C  
; Publication No. US20030145341A1

## GENERAL INFORMATION:

; APPLICANT: ZHANG, Weisheng  
; APPLICANT: CONTAG, Pamela  
; APPLICANT: PURCHIO, Anthony  
; APPLICANT: HASHIMA, Sandy  
; APPLICANT: MA, Shirley  
; APPLICANT: NAWOTKA, Kevin  
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN  
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH  
; TITLE OF INVENTION: CYTOCHROME EXPRESSION  
; FILE REFERENCE: 9400-0014 / PXE-014.US  
; CURRENT APPLICATION NUMBER: US/10/121,960C  
; CURRENT FILING DATE: 2002-04-11  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 14  
; LENGTH: 13035  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: human CYP3A4 gene locus  
US-10-121-960C-14

Query Match 79.4%; Score 24.6; DB 6; Length 13035;  
Best Local Similarity 87.1%; Pred. No. 24;  
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31  
|||||  
Db 12868 GCTGCAGCTCCAGCCCTGCTCTCTCTAG 12898

## RESULT 14

US-10-121-960C-17  
; Sequence 17, Application US/10121960C  
; Publication No. US20030145341A1

## GENERAL INFORMATION:

; APPLICANT: ZHANG, Weisheng  
; APPLICANT: CONTAG, Pamela  
; APPLICANT: PURCHIO, Anthony  
; APPLICANT: HASHIMA, Sandy  
; APPLICANT: MA, Shirley  
; APPLICANT: NAWOTKA, Kevin  
; TITLE OF INVENTION: ISOLATION AND IDENTIFICATION OF MOUSE AND HUMAN  
; TITLE OF INVENTION: TRANSCRIPTION CONTROL ELEMENTS ASSOCIATED WITH  
; TITLE OF INVENTION: CYTOCHROME EXPRESSION  
; FILE REFERENCE: 9400-0014 / PXE-014.US  
; CURRENT APPLICATION NUMBER: US/10/121,960C  
; CURRENT FILING DATE: 2002-04-11  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 17  
; LENGTH: 15185  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: CYP3A4-luc transgene  
US-10-121-960C-17

Query Match 79.4%; Score 24.6; DB 6; Length 15185;  
Best Local Similarity 87.1%; Pred. No. 24;  
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31  
|||||  
Db 12868 GCTGCAGCTCCAGCCCTGCTCTCTCTAG 12898

## RESULT 15

US-10-484-577-660  
; Sequence 660, Application US/10484577  
; Publication No. US20050032724A1

## GENERAL INFORMATION:

; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1  
; FILE REFERENCE: P2285PCT-1  
; CURRENT APPLICATION NUMBER: US/10/484,577  
; CURRENT FILING DATE: 2004-01-22  
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
; PRIOR FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
; PRIOR FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: EP 02011710.7  
; PRIOR FILING DATE: 2002-05-24  
; NUMBER OF SEQ ID NOS: 683  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 660  
; LENGTH: 177531  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-484-577-660

Query Match 79.4%; Score 24.6; DB 8; Length 177531;  
Best Local Similarity 87.1%; Pred. No. 19;  
Matches 27; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACCCTCTCTCCAG 31  
|||||  
Db 15749 GCTGCAGCTATAGCCCTGCTCTCTCTCCAG 15779

## RESULT 16

US-09-795-926-47/c

; Sequence 47, Application US/09795926  
; Patent No. US20020098486A1

## GENERAL INFORMATION:

; APPLICANT: Donoho, Gregory  
; APPLICANT: Hilbun, Erin  
; APPLICANT: Turner, C. Alexander Jr.  
; APPLICANT: Friedrich, Glenn  
; APPLICANT: Abuin, Alejandro  
; APPLICANT: Zambrowicz, Brian  
; APPLICANT: Sands, Arthur T.  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Wilganowski, Nathaniel L.  
; APPLICANT: Hu, Yi  
; APPLICANT: Kieke, James Alvin  
; APPLICANT: Potter, David George  
; TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND  
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THE SAME  
; FILE REFERENCE: LEX-0144-USA  
; CURRENT APPLICATION NUMBER: US/09/795,926  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: US 60/185,920  
; PRIOR FILING DATE: 2000-02-29  
; PRIOR APPLICATION NUMBER: US 60/186,558  
; PRIOR FILING DATE: 2000-03-02  
; PRIOR APPLICATION NUMBER: US 60/191,849  
; PRIOR FILING DATE: 2000-03-24  
; NUMBER OF SEQ ID NOS: 47  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 47  
; LENGTH: 795  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-09-795-926-47



US-09-798-029-3

Query Match 74.8%; Score 23.2; DB 3; Length 1001;  
Best Local Similarity 83.3%; Pred. No. 90;  
Matches 25; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCCCA 30  
Db 85 GCTTCAGCGCCAGCCACCTCTTCCCA 56

RESULT 21

US-11-097-143-32333/c  
; Sequence 32333, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; FILE REFERENCE: DROSOPHILA GENES.  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: US/11/097,143  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 32333  
; LENGTH: 186  
; TYPE: DNA  
; ORGANISM: DROSOPHILA  
US-11-097-143-32333

Query Match 74.2%; Score 23; DB 10; Length 186;  
Best Local Similarity 83.9%; Pred. No. 1.2e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCCAG 31  
Db 118 GCTCCAGCTCCAGTCCACCTCTTCCAG 88

RESULT 22

US-10-374-780A-1570/c  
; Sequence 1570, Application US/10374780A  
; Publication No. US20040019927A1  
; GENERAL INFORMATION:  
; APPLICANT: Sherman, Bradley K  
; APPLICANT: Riechmann, Jose Luis  
; APPLICANT: Jiang, Cai-Zhong  
; APPLICANT: Heard, Jacqueline E  
; APPLICANT: Haake, Volker  
; APPLICANT: Creelman, Robert A  
; APPLICANT: Ratcliffe, Oliver  
; APPLICANT: Adam, Luc J  
; APPLICANT: Reuber, T. Lynne  
; APPLICANT: Keddle, James  
; APPLICANT: Broun, Pierre E

; APPLICANT: Pilgrim, Marsha L  
; APPLICANT: Dubell III, Arnold T  
; APPLICANT: Pineda, Omaira  
; APPLICANT: Yu, Guo-Liang  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS  
; FILE REFERENCE: MBI-0047 CIP  
; CURRENT APPLICATION NUMBER: US/10/374,780A  
; CURRENT FILING DATE: 2003-02-25  
; PRIOR APPLICATION NUMBER: 09/837,944  
; PRIOR FILING DATE: 2001-04-18  
; PRIOR APPLICATION NUMBER: 60/310,847  
; PRIOR FILING DATE: 2001-08-09  
; PRIOR APPLICATION NUMBER: 09/934,455  
; PRIOR FILING DATE: 2001-08-22  
; PRIOR APPLICATION NUMBER: 60/336,049  
; PRIOR FILING DATE: 2001-11-19  
; PRIOR APPLICATION NUMBER: 60/338,692  
; PRIOR FILING DATE: 2001-12-11  
; PRIOR APPLICATION NUMBER: 10/171,468  
; PRIOR FILING DATE: 2002-06-14  
; PRIOR APPLICATION NUMBER: 10/225,066  
; PRIOR FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: 10/225,067  
; PRIOR FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: 10/225,068  
; PRIOR FILING DATE: 2002-08-09  
; NUMBER OF SEQ ID NOS: 2906  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1570  
; LENGTH: 634  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Predicted polypeptide sequence is orthologous to GI331  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (574)..(574)  
; OTHER INFORMATION: n is a, c, g, or t  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (587)..(587)  
; OTHER INFORMATION: n is a, c, g, or t  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (590)..(590)  
; OTHER INFORMATION: n is a, c, g, or t  
US-10-374-780A-1570

Query Match 74.2%; Score 23; DB 7; Length 634;  
Best Local Similarity 83.9%; Pred. No. 1.1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCCAG 31  
Db 492 GCTGCTGCTGCTCTCTCTCTCTCTCCAG 462

RESULT 23

US-10-425-115-34631/c  
; Sequence 34631, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 34631

; LENGTH: 634  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)-(634)  
; OTHER INFORMATION: unsure at all n locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_131588C.1  
US-10-425-115-34631

Query Match 74.2%; Score 23; DB 8; Length 634;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31  
Db 492 GCTGCTGCTGCTCTCTCTCTCTCTCCAG 462

## RESULT 24

US-10-450-763-4262/c  
; Sequence 4262, Application US/10450763  
; Publication No. US20050196754A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc  
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
; FILE REFERENCE: 790CIP3/US  
; CURRENT APPLICATION NUMBER: US/10/450,763  
; CURRENT FILING DATE: 2003-06-11  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: PCT/US01/08631  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/540,217  
; PRIOR FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: 09/649,167  
; PRIOR FILING DATE: 2000-08-23  
; NUMBER OF SEQ ID NOS: 60736  
; SOFTWARE: Custom  
; SEQ ID NO 4262  
; LENGTH: 1185  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIMILAR  
; LOCATION: (1033)..(1182)  
; OTHER INFORMATION: 94% homologous to Mus musculus Pro-Pol-dUTPase  
; OTHER INFORMATION: polypeptide, accession number Y12713, Smith-Waterman Score=246.  
US-10-450-763-4262

Query Match 74.2%; Score 23; DB 9; Length 1185;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31  
Db 430 GCTGCGCGCAGCTGCACCTCTCTCTCCAG 400

## RESULT 25

US-10-437-963-28242  
; Sequence 28242, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 28242  
; LENGTH: 1200  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_3285C.1  
US-10-437-963-28242

Query Match 74.2%; Score 23; DB 7; Length 1200;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31  
Db 652 GCTCCAGCTCCAGCCCACTCTCTCTCCAG 682

## RESULT 26

US-10-149-826-57/c  
; Sequence 57, Application US/10149826  
; Publication No. US20040224314A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.  
; APPLICANT: BURFORD, Neil  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: AU-YOUNG, Janice  
; APPLICANT: YANG, Junming  
; APPLICANT: LU, Dying Aina M.  
; APPLICANT: REDDY, Roopa  
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTORS  
; FILE REFERENCE: PI-0001 PCT  
; CURRENT APPLICATION NUMBER: US/10/149,826  
; CURRENT FILING DATE: 2002-06-10  
; PRIOR APPLICATION NUMBER: 60/172,852; 60/171,732; 60/176,148; 60/177,331  
; PRIOR FILING DATE: 1999-12-10; 1999-12-22; 2000-01-14; 2000-01-21  
; NUMBER OF SEQ ID NOS: 78  
; SOFTWARE: PERL Program  
; SEQ ID NO 57  
; LENGTH: 1370  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: 2829053CB1  
US-10-149-826-57

Query Match 74.2%; Score 23; DB 8; Length 1370;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31  
Db 618 GCTGCGCGCAGCTGCACCTCTCTCTCCAG 588

## RESULT 27

US-10-450-763-6761/c  
; Sequence 6761, Application US/10450763  
; Publication No. US20050196754A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc  
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
; FILE REFERENCE: 790CIP3/US  
; CURRENT APPLICATION NUMBER: US/10/450,763  
; CURRENT FILING DATE: 2003-06-11  
; PRIOR APPLICATION NUMBER: PCT/US01/08631  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/540,217  
; PRIOR FILING DATE: 2000-03-31

; PRIOR APPLICATION NUMBER: 09/649,167  
; PRIOR FILING DATE: 2000-08-23  
; NUMBER OF SEQ ID NOS: 60736  
; SOFTWARE: Custom  
; SEQ ID NO 6761  
; LENGTH: 1452  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIMILAR  
; LOCATION: (1186)..(1449)  
; OTHER INFORMATION: 82% homologous to Mus musculus Pro-Pol-dUTPase  
; OTHER INFORMATION: polypeptide, accession number Y12713, Smith-Waterman Score=382.  
US-10-450-763-6761

Query Match 74.2%; Score 23; DB 9; Length 1452;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31  
||||| ||||| ||||| ||||| |||||  
Db 430 GCTGCGCCGAGCTGCACCTCTCTCCAG 400

## RESULT 28

US-10-450-763-7006/c  
; Sequence 7006, Application US/10450763  
; Publication No. US20050196754A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc  
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
; FILE REFERENCE: 790CIP3/US  
; CURRENT APPLICATION NUMBER: US/10/450,763  
; CURRENT FILING DATE: 2003-06-11  
; PRIOR APPLICATION NUMBER: PCT/US01/08631  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/540,217  
; PRIOR FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: 09/649,167  
; PRIOR FILING DATE: 2000-08-23  
; NUMBER OF SEQ ID NOS: 60736  
; SOFTWARE: Custom  
; SEQ ID NO 7006  
; LENGTH: 1523  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIMILAR  
; LOCATION: (1033)..(1509)  
; OTHER INFORMATION: 70% homologous to Mus musculus Pro-Pol-dUTPase  
; OTHER INFORMATION: polypeptide, accession number Y12713, Smith-Waterman Score=540.  
US-10-450-763-7006

Query Match 74.2%; Score 23; DB 9; Length 1523;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31  
||||| ||||| ||||| ||||| |||||  
Db 430 GCTGCGCCGAGCTGCACCTCTCTCCAG 400

## RESULT 29

US-10-426-124-7/c  
; Sequence 7, Application US/10426124  
; Publication No. US20050158821A1  
; GENERAL INFORMATION:  
; APPLICANT: Mello, Charlene M.  
; APPLICANT: Arcidiacono, Steven  
; TITLE OF INVENTION: Novel Purification and Fiber Spinning Techniques for  
; TITLE OF INVENTION: Protein Fibers  
; FILE REFERENCE: ARMY-03665  
; CURRENT APPLICATION NUMBER: US/10/426,124

; CURRENT FILING DATE: 2003-04-29  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 7  
; LENGTH: 1588  
; TYPE: DNA  
; ORGANISM: Nephila clavipes  
; US-10-426-124-7

Query Match 74.2%; Score 23; DB 9; Length 1588;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31  
||||| ||||| ||||| ||||| |||||  
Db 1121 GCTGCGCGCTGCTCCAGCTCTCTCCAG 1091

## RESULT 30

US-09-969-852-4/c  
; Sequence 4, Application US/09969852  
; Patent No. US20020137211A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Tianyan  
; APPLICANT: Liu, Huifen  
; APPLICANT: Li, Wei  
; APPLICANT: Zhao, Libin  
; TITLE OF INVENTION: A METHOD FOR ESTABLISHING AN EXPRESSION SYSTEM OF SPIDER DRAGLINE  
; FILE REFERENCE: LIU-65  
; CURRENT APPLICATION NUMBER: US/09/969,852  
; CURRENT FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: CN01106406.4  
; PRIOR FILING DATE: 2001-01-02  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 4  
; LENGTH: 1852  
; TYPE: DNA  
; ORGANISM: Nephila clavipes  
; US-09-969-852-4

Query Match 74.2%; Score 23; DB 3; Length 1852;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCCAG 31  
||||| ||||| ||||| ||||| |||||  
Db 1376 GCTGCGCGCTGCTCCAGCTCTCTCCAG 1346

## RESULT 31

US-10-488-056-2/c  
; Sequence 2, Application US/10488056  
; Publication No. US20050010035A1  
; GENERAL INFORMATION:  
; APPLICANT: University of Wyoming  
; TITLE OF INVENTION: Spider Silk Protein Encoding Nucleic  
; TITLE OF INVENTION: Acid Sequences, Polypeptides, Antibodies And Methods Of Use  
; TITLE OF INVENTION: Thereof  
; FILE REFERENCE: UWYO 02-001  
; CURRENT APPLICATION NUMBER: US/10/488,056  
; CURRENT FILING DATE: 2004-02-27  
; PRIOR APPLICATION NUMBER: PCT/US02/09663  
; PRIOR FILING DATE: 2002-03-28  
; PRIOR APPLICATION NUMBER: 60/315,529  
; PRIOR FILING DATE: 2001-08-29  
; NUMBER OF SEQ ID NOS: 73  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 1947  
; TYPE: DNA  
; ORGANISM: Argiope trifasciata

US-10-488-056-2

Query Match 74.2%; Score 23; DB 8; Length 1947;  
Best Local Similarity 83.9%; Pred. No. 1e+02;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTTCCAG 31  
|||||  
Db 710 GCTGCAGCTGCAGCTGCAGCCCACTTGTCCAG 680

RESULT 32

US-11-097-143-32332/c  
; Sequence 32332, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; TITLE OF INVENTION: DROSOPHILA GENES.  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 32332  
; LENGTH: 2186  
; TYPE: DNA  
; ORGANISM: DROSOPHILA

US-11-097-143-32332

Query Match 74.2%; Score 23; DB 10; Length 2186;  
Best Local Similarity 83.9%; Pred. No. 99;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTTCCAG 31  
|||||  
Db 1118 GCTCCAGCTCCAGCTCCCACTCTTCCAG 1088

RESULT 33

US-10-437-963-98283  
; Sequence 98283, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B

; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 98283  
; LENGTH: 2279  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_96203C.1  
US-10-437-963-98283

Query Match 74.2%; Score 23; DB 7; Length 2279;  
Best Local Similarity 83.9%; Pred. No. 98;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTTCCAG 31  
|||||  
Db 781 GCTCTAGCTCCAGCCCACTCTCTTCCAG 811

RESULT 34

US-10-437-963-28630  
; Sequence 28630, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 28630  
; LENGTH: 4098  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_3320C.1  
US-10-437-963-28630

Query Match 74.2%; Score 23; DB 7; Length 4098;  
Best Local Similarity 83.9%; Pred. No. 94;  
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTTCCAG 31  
|||||  
Db 676 GCTCCAGCTCCAGCCCACTCTTCCAG 706

RESULT 35

US-11-097-143-1960  
; Sequence 1960, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; TITLE OF INVENTION: DROSOPHILA GENES.  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19

```
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1960
; LENGTH: 15405
; TYPE: DNA
; ORGANISM: DROSOPHILA
; US-11-097-143-1960

Query Match          74.2%; Score 23; DB 10; Length 15405;
Best Local Similarity 83.9%; Pred. No. 84;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 7176 GCTGCAGCTGCAGCTCCAGCACCAGCTCCAG 7206

RESULT 36
US-10-087-192-31/c
; Sequence 31, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; PRIOR FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 98606
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(98606)
; OTHER INFORMATION: n = A,T,C or G
US-10-087-192-31

Query Match          74.2%; Score 23; DB 5; Length 98606;
Best Local Similarity 83.9%; Pred. No. 73;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 29338 GCTCCAGCTCCAGCTCCAGCACCCTTCTCTG 29308

RESULT 37
US-09-925-302-132/c
; Sequence 132, Application US/09925302
; Patent No. US20020044941A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
```

```
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 567
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (567)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-302-132
```

```
Query Match          72.9%; Score 22.6; DB 3; Length 567;
Best Local Similarity 80.6%; Pred. No. 1.5e+02;
Matches 25; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 469 GCTGTCGCCGAGCTGCACCTCTCTCTCCAG 439
```

```
RESULT 38
US-09-925-302-132/c
; Sequence 132, Application US/09925302
; Publication No. US20030064072A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 132
; LENGTH: 567
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (567)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-302-132
```

```
Query Match          72.9%; Score 22.6; DB 3; Length 567;
Best Local Similarity 80.6%; Pred. No. 1.5e+02;
Matches 25; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
Db 469 GCTGTCGCCGAGCTGCACCTCTCTCTCCAG 439
```

```
RESULT 39
US-10-479-638-6/c
; Sequence 6, Application US/10479638
; Publication No. US20040210956A1
; GENERAL INFORMATION:
; APPLICANT: Don A. Roth
; APPLICANT: Randolph V. Lewis
; APPLICANT: The University of Wyoming
; TITLE OF INVENTION: Expression of Spider Silk Proteins in Higher Plants
; FILE REFERENCE: WYO.02-0004US
```

```
; CURRENT APPLICATION NUMBER: US/10/479,638
; CURRENT FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: PCT/US02/18256
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/296,184
; PRIOR FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 845
; TYPE: DNA
; ORGANISM: Zorocrates sp.
US-10-479-638-6

Query Match          72.9%; Score 22.6; DB 8; Length 845;
Best Local Similarity 86.2%; Pred. No. 1.5e+02;
Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCGCCACCTCTCTCC 29
    ||||| ||||| ||||| ||||| |||||
Db 182 GCTGCTGCTGCTGCCGACCTCCATCTCC 154

RESULT 40
US-10-488-056-27/c
; Sequence 27, Application US/10488056
; Publication No. US20050010035A1
; GENERAL INFORMATION:
; APPLICANT: University of Wyoming
; TITLE OF INVENTION: Spider Silk Protein Encoding Nucleic
; TITLE OF INVENTION: Acid Sequences, Polypeptides, Antibodies And Methods Of Use
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: UMYO 02-001
; CURRENT APPLICATION NUMBER: US/10/488,056
; CURRENT FILING DATE: 2004-02-27
; PRIOR APPLICATION NUMBER: PCT/US02/09663
; PRIOR FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: 60/315,529
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 27
; LENGTH: 845
; TYPE: DNA
; ORGANISM: Zorocrates sp.
US-10-488-056-27

Query Match          72.9%; Score 22.6; DB 8; Length 845;
Best Local Similarity 86.2%; Pred. No. 1.5e+02;
Matches 25; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCGCCACCTCTCTCC 29
    ||||| ||||| ||||| ||||| |||||
Db 182 GCTGCTGCTGCTGCCGACCTCCATCTCC 154

RESULT 41
US-10-930-24433/c
; Sequence 24433, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endegde, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25724
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 4, 5, 50, 63, 94, 122, 130, 168, 172, 1099, 1100
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-25724

Query Match          72.9%; Score 22.6; DB 8; Length 1100;
Best Local Similarity 83.3%; Pred. No. 1.4e+02;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCGCCACCTCTCTCC 30
    ||||| ||||| ||||| ||||| |||||
Db 85 GCTTCAGCGCCAGCCGCCACCTCTCTCC 56

RESULT 42
US-10-357-930-25724/c
; Sequence 25724, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endegde, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25724
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 4, 5, 50, 63, 94, 122, 130, 168, 172, 1099, 1100
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-25724

Query Match          72.9%; Score 22.6; DB 8; Length 1100;
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Best Local Similarity 83.3%; Pred. NO. 1.4e+02;  
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGAGCTGCAGCCGCCACCTCCTTCTCCA 30  
|||||  
Db 85 GCTTGCAGCCAGCCGCCACCTCCTTCTCCA 56

RESULT 43  
US-10-437-963-34706  
; Sequence 34706, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 34706  
; LENGTH: 671  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_38696C.1  
US-10-437-963-34706

Query Match 71.6%; Score 22.2; DB 7; Length 671;  
Best Local Similarity 88.9%; Pred. NO. 2e+02;  
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCTGAGCTGCAGCCGCCACCTCCTTCT 27  
|||||  
Db 455 GCTGAGCTGCAGCTGCACCTCCGTCT 481

RESULT 44  
US-10-437-963-93250/c  
; Sequence 93250, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 93250  
; LENGTH: 1929  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_91653C.1  
US-10-437-963-93250

Query Match 71.6%; Score 22.2; DB 7; Length 1929;  
Best Local Similarity 88.9%; Pred. NO. 1.9e+02;

Matches	24;	Conservative	0;	Mismatches	3;	Indels	0;	Gaps
QY	1	GCTGCAGCTGCAGCCCACTCTCTCT 27						
Db	1606	GCTGCAGCTGCAGCTGCACCTCGTCT 1580						
RESULT 45								
US-11-097-143-15800								
; Sequence 15800, Application US/11097143								
; Publication No. US20050208558A1								
; GENERAL INFORMATION:								
; APPLICANT: Venter, J. Craig								
; APPLICANT: et al.								
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID								
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE								
; TITLE OF INVENTION: DROSOPHILA GENES.								
; FILE REFERENCE: CL000728								
; CURRENT APPLICATION NUMBER: US/11/097,143								
; CURRENT FILING DATE: 2005-04-04								
; PRIOR APPLICATION NUMBER: 60/157,832								
; PRIOR FILING DATE: 1999-10-05								
; PRIOR APPLICATION NUMBER: 60/160,191								
; PRIOR FILING DATE: 1999-10-19								
; PRIOR APPLICATION NUMBER: 60/161,932								
; PRIOR FILING DATE: 1999-10-28								
; PRIOR APPLICATION NUMBER: 60/164,769								
; PRIOR FILING DATE: 1999-11-12								
; PRIOR APPLICATION NUMBER: 60/173,383								
; PRIOR FILING DATE: 1999-12-28								
; PRIOR APPLICATION NUMBER: 60/175,693								
; PRIOR FILING DATE: 2000-01-12								
; PRIOR APPLICATION NUMBER: 60/184,831								
; PRIOR FILING DATE: 2000-02-24								
; PRIOR APPLICATION NUMBER: 60/191,637								
; PRIOR FILING DATE: 2000-03-23								
; NUMBER OF SEQ ID NOS: 43008								
; SOFTWARE: FastSeq for Windows Version 4.0								
; SEQ ID NO 15800								
; LENGTH: 2468								
; TYPE: DNA								
; ORGANISM: DROSOPHILA								
US-11-097-143-15800								
Query Match 71.6%; Score 22.2; DB 10; Length 2468;								
Best Local Similarity 88.9%; Pred. No. 1.8e+02;								
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps								
QY	4	GCAGCTGCAGCCCACTCTCTCTCCA 30						
Db	215	GCAGCTGCAGGCGCACTCTCTTCCA 241						
RESULT 46								
US-11-097-143-17824/c								
; Sequence 17824, Application US/11097143								
; Publication No. US20050208558A1								
; GENERAL INFORMATION:								
; APPLICANT: Venter, J. Craig								
; APPLICANT: et al.								
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID								
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE								
; TITLE OF INVENTION: DROSOPHILA GENES.								
; FILE REFERENCE: CL000728								
; CURRENT APPLICATION NUMBER: US/11/097,143								
; CURRENT FILING DATE: 2005-04-04								
; PRIOR APPLICATION NUMBER: 60/157,832								
; PRIOR FILING DATE: 1999-10-05								
; PRIOR APPLICATION NUMBER: 60/160,191								
; PRIOR FILING DATE: 1999-10-19								
; PRIOR APPLICATION NUMBER: 60/161,932								
; PRIOR FILING DATE: 1999-10-28								
; PRIOR APPLICATION NUMBER: 60/164,769								

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; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17824
; LENGTH: 2645
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-17824

Query Match          71.6%; Score 22.2; DB 10; Length 2645;
Best Local Similarity 88.9%; Pred. No. 1.8e+02;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 GCAGCTGCAGCCCGCAGCTCTCTCCCA 30
Db      321 GCAGCTGCAGCGGCGACTCTCTCTCCA 295

RESULT 47
US-11-097-143-15799/c
; Sequence 15799, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15799
; LENGTH: 11205
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-15799
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Query Match          71.6%; Score 22.2; DB 10; Length 11205;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 GCAGCTGCAGCCCGCAGCTCTCTCTCCCA 30
Db      9991 GCAGCTGCAGCGGCGACTCTCTCTCTCCA 9965

RESULT 48
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US-09-764-891-2198/c
; Sequence 2198, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2198
; LENGTH: 402
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (327)
; OTHER INFORMATION: n equals a.t.g, or c
; NAME/KEY: SITE
; LOCATION: (377)
; OTHER INFORMATION: n equals a.t.g, or c
US-09-764-891-2198

Query Match          71.0%; Score 22; DB 3; Length 402;
Best Local Similarity 83.3%; Pred. No. 2.5e+02;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      2 CTCGAGCTGCAGCCCGCAGCTCTCTCTCCAG 31
Db      98 CTCGAGCTGCAGCCCGCAGCTCTCTCTCTCCAG 69

RESULT 49
US-10-260-238-5291
; Sequence 5291, Application US/10260238
; Publication No. US20040016025A1
; GENERAL INFORMATION:
; APPLICANT: Budworth, Paul R.
; APPLICANT: Moughamer, Todd G.
; APPLICANT: Briggis, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiyaki
; APPLICANT: Kreps, Joel
; APPLICANT: Provart, Nicholas
; APPLICANT: Ricke, Darrell
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: PROMOTERS FOR REGULATION OF PLANT EXPRESSION
; FILE REFERENCE: 60111-NP
; CURRENT APPLICATION NUMBER: US/10/260,238
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/325,448
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 6077
; SEQ ID NO 5291
; LENGTH: 450
; TYPE: DNA
; ORGANISM: Zea mays
US-10-260-238-5291

Query Match          71.0%; Score 22; DB 7; Length 450;
Best Local Similarity 83.3%; Pred. No. 2.5e+02;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      1 GCTGAGCTGCAGCCCGCAGCTCTCTCTCTCCA 30
```

Db 137 GGTGCAGCGCCGACCATCTCTCTCCA 166

RESULT 50  
US-10-767-701-31475/c  
; Sequence 31475, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 31475  
; LENGTH: 564  
; TYPE: DNA  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(564)  
; OTHER INFORMATION: unsure at all n locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: 18069289  
US-10-767-701-31475

Query Match 71.0%; Score 22; DB 7; Length 564;  
Best Local Similarity 83.3%; Pred. No. 2.4e+02;  
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGTGCAGCTGCAGCCGACCATCTCTCTCCA 30  
|||  
Db 380 GGTGCAGCTGCAGCCGACCATCTCTCTCCA 351  
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Search completed: January 11, 2006, 04:39:01  
Job time : 625.071 secs

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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:06:24 ; Search time 629.707 Seconds  
(without alignments)  
39.844 Million cell updates/sec

Title: US-09-869-169C-19\_COPY\_1180\_1210

Perfect score: 31

Sequence: 1 gctgcagctgcagccaccactctcttcag 31

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 6038814 seqs, 404674181 residues

Total number of hits satisfying chosen parameters: 12077628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications\_NA\_New.\*

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3: /cgn2\_6/prodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
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5: /cgn2\_6/prodata/2/pubpna/US05\_NEW\_PUB.seq.\*  
6: /cgn2\_6/prodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
7: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq.\*  
8: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq2.\*  
9: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq3.\*  
10: /cgn2\_6/prodata/2/pubpna/US60\_NEW\_PUB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	23.6	76.1	795	7	US-11-134-241-47
C 2	23	74.2	3332	6	US-10-821-234-830
C 3	21.4	69.0	201	6	US-10-995-561-14370
C 4	21.4	69.0	201	6	US-10-995-561-14385
C 5	21.4	69.0	10259	7	US-11-136-527-2837
C 6	21.4	69.0	96128	6	US-10-995-561-13197
C 7	21.2	68.4	1200	6	US-10-927-641-36
C 8	21	67.7	89	6	US-10-310-9148-10056
C 9	21	67.7	1035	6	US-10-750-185-56691
C 10	21	67.7	1035	6	US-10-750-623-56691
C 11	21	67.7	1750	6	US-10-750-185-47557
C 12	21	67.7	1750	6	US-10-750-623-47557
C 13	21	67.7	4301	7	US-11-136-527-3816
C 14	21	67.7	14619	7	US-11-128-061-745
C 15	20.6	66.5	1400	7	US-11-136-527-8100
C 16	20.6	66.5	1506	7	US-11-134-563-7
C 17	20.6	66.5	2098	7	US-11-136-527-4004
C 18	20.4	65.8	916	6	US-10-750-185-49752
C 19	20.4	65.8	916	6	US-10-750-623-49752
C 20	20.4	65.8	1916	6	US-10-750-185-30841
C 21	20.4	65.8	1916	6	US-10-750-623-30841
C 22	20.4	65.8	2784	7	US-11-000-463-220
C 23	20.4	65.8	164810	7	US-11-121-086-4

Sequence 3, Appli  
Sequence 4095, Ap  
Sequence 334, App  
Sequence 3976, Ap  
Sequence 1484, Ap  
Sequence 5580, Ap  
Sequence 35634, A  
Sequence 3719, Ap  
Sequence 1828, Ap  
Sequence 43, Appl  
Sequence 28, Appl  
Sequence 62340, A  
Sequence 62340, A  
Sequence 3337, Ap  
Sequence 7403, Ap  
Sequence 3103, Ap  
Sequence 154, App  
Sequence 156, App  
Sequence 805, App  
Sequence 155, App  
Sequence 3, Appli  
Sequence 311, App  
Sequence 7046, Ap  
Sequence 38467, A  
Sequence 3404, Ap  
Sequence 64, Appl  
Sequence 68, Appl  
Sequence 65675, A  
Sequence 17, Appl  
Sequence 4150, Ap  
Sequence 508, App  
Sequence 30216, A  
Sequence 270, App  
Sequence 68, Appl  
Sequence 269, App  
Sequence 3049, Ap  
Sequence 13377, A  
Sequence 13276, A  
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Sequence 61, Appl  
Sequence 2, Appli  
Sequence 66640, A  
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Sequence 13383, A  
Sequence 65115, A  
Sequence 65140, A  
Sequence 3743, Ap  
Sequence 3026, Ap  
Sequence 726, App  
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Sequence 517, App  
Sequence 1, Appli  
Sequence 513, App  
Sequence 505, App  
Sequence 521, App  
Sequence 523, App  
Sequence 537, App  
Sequence 535, App  
Sequence 531, App  
Sequence 541, App  
Sequence 543, App  
Sequence 545, App  
Sequence 38, Appl

c 97	19	61.3	3400	6	US-10-750-185-31857	Sequence 31857, A	c 170	18.6	60.0	195998	6	US-10-995-561-13489	Sequence 13489, A
c 98	19	61.3	3400	6	US-10-750-623-31857	Sequence 31857, A	c 171	18.4	59.4	23	6	US-10-310-914A-995615	Sequence 995615, A
c 99	19	61.3	3477	6	US-10-858-730-141	Sequence 141, App	c 172	18.4	59.4	201	6	US-10-995-561-38984	Sequence 38984, A
c 100	19	61.3	4042	7	US-11-136-527-24170	Sequence 2417, App	c 173	18.4	59.4	201	6	US-10-995-561-63965	Sequence 63965, A
c 101	19	61.3	65885	6	US-10-995-561-13490	Sequence 13490, A	c 174	18.4	59.4	201	6	US-10-995-561-64101	Sequence 64101, A
c 102	19	61.3	66916	6	US-10-995-561-13374	Sequence 13374, A	c 175	18.4	59.4	201	6	US-10-995-561-66721	Sequence 66721, A
c 103	19	61.3	199321	7	US-11-121-086-10	Sequence 10, Appl	c 176	18.4	59.4	350	7	US-11-128-061-2654	Sequence 2654, App
c 104	19	61.3	218821	7	US-11-121-086-31	Sequence 31, Appl	c 177	18.4	59.4	441	7	US-11-128-061-2012	Sequence 2012, App
c 105	18.8	60.6	201	6	US-10-995-561-12144	Sequence 12144, A	c 178	18.4	59.4	463	7	US-11-112-908-356	Sequence 356, App
c 106	18.8	60.6	201	6	US-10-995-561-12170	Sequence 12170, A	c 179	18.4	59.4	994	7	US-11-183-914-19	Sequence 19, Appl
c 107	18.8	60.6	201	6	US-10-995-561-12180	Sequence 12180, A	c 180	18.4	59.4	999	6	US-10-131-826A-395	Sequence 395, App
c 108	18.8	60.6	201	6	US-10-995-561-12222	Sequence 12222, A	c 181	18.4	59.4	1204	6	US-10-750-185-38920	Sequence 38920, A
c 109	18.8	60.6	201	6	US-10-995-561-12232	Sequence 12232, A	c 182	18.4	59.4	1204	6	US-10-750-623-38920	Sequence 38920, A
c 110	18.8	60.6	201	6	US-10-995-561-12275	Sequence 12275, A	c 183	18.4	59.4	1288	6	US-10-750-185-55232	Sequence 55232, A
c 111	18.8	60.6	201	6	US-10-995-561-12285	Sequence 12285, A	c 184	18.4	59.4	1288	6	US-10-750-623-55232	Sequence 55232, A
c 112	18.8	60.6	201	6	US-10-995-561-12328	Sequence 12328, A	c 185	18.4	59.4	1317	7	US-11-140-417-1	Sequence 1, Appli
c 113	18.8	60.6	201	6	US-10-995-561-12338	Sequence 12338, A	c 186	18.4	59.4	1335	6	US-10-750-185-48926	Sequence 48926, A
c 114	18.8	60.6	201	6	US-10-995-561-62387	Sequence 62387, A	c 187	18.4	59.4	1335	6	US-10-750-623-48926	Sequence 48926, A
c 115	18.8	60.6	201	6	US-10-995-561-62404	Sequence 62404, A	c 188	18.4	59.4	1400	7	US-11-136-527-6758	Sequence 6758, App
c 116	18.8	60.6	360	7	US-11-136-527-3950	Sequence 3950, App	c 189	18.4	59.4	1879	7	US-11-136-527-2662	Sequence 2662, App
c 117	18.8	60.6	360	7	US-11-136-527-8046	Sequence 8046, App	c 190	18.4	59.4	2478	6	US-10-750-185-40981	Sequence 40981, A
c 118	18.8	60.6	421	7	US-11-108-172-24	Sequence 24, Appl	c 191	18.4	59.4	2478	6	US-10-750-623-40981	Sequence 40981, A
c 119	18.8	60.6	467	7	US-11-000-688-1305	Sequence 1305, App	c 192	18.4	59.4	2585	6	US-10-750-185-56925	Sequence 56925, A
c 120	18.8	60.6	521	6	US-10-623-155-324	Sequence 324, App	c 193	18.4	59.4	2585	6	US-10-750-623-56925	Sequence 56925, A
c 121	18.8	60.6	1026	6	US-10-821-234-776	Sequence 776, App	c 194	18.4	59.4	2673	6	US-10-750-185-43708	Sequence 43708, A
c 122	18.8	60.6	1385	6	US-10-775-169-134	Sequence 134, App	c 195	18.4	59.4	2673	6	US-10-750-623-43708	Sequence 43708, A
c 123	18.8	60.6	1412	7	US-11-186-284-154	Sequence 154, App	c 196	18.4	59.4	3143	6	US-10-750-185-64874	Sequence 64874, A
c 124	18.8	60.6	1463	6	US-10-750-185-62459	Sequence 62459, A	c 197	18.4	59.4	3143	6	US-10-750-623-64874	Sequence 64874, A
c 125	18.8	60.6	1463	6	US-10-750-623-62459	Sequence 62459, A	c 198	18.4	59.4	3443	7	US-11-128-061-3452	Sequence 3452, App
c 126	18.8	60.6	1570	6	US-10-750-623-62459	Sequence 62459, A	c 199	18.4	59.4	3864	6	US-10-750-185-59030	Sequence 59030, A
c 127	18.8	60.6	1570	6	US-10-750-623-61350	Sequence 61350, A	c 200	18.4	59.4	3864	6	US-10-750-623-59030	Sequence 59030, A
c 128	18.8	60.6	1869	6	US-10-750-185-51560	Sequence 51560, A	c 201	18.4	59.4	3939	6	US-10-750-185-26645	Sequence 26645, A
c 129	18.8	60.6	1869	6	US-10-750-623-51560	Sequence 51560, A	c 202	18.4	59.4	3939	6	US-10-750-623-26645	Sequence 26645, A
c 130	18.8	60.6	1924	6	US-10-821-234-109	Sequence 109, App	c 203	18.4	59.4	4590	6	US-10-750-185-57011	Sequence 57011, A
c 131	18.8	60.6	1978	6	US-10-995-561-470	Sequence 470, App	c 204	18.4	59.4	4590	6	US-10-750-623-57011	Sequence 57011, A
c 132	18.8	60.6	2769	7	US-11-115-086-8	Sequence 8, Appli	c 205	18.4	59.4	4683	7	US-11-145-035-25	Sequence 25, Appl
c 133	18.8	60.6	2925	7	US-11-115-086-6	Sequence 6, Appli	c 206	18.4	59.4	8420	7	US-11-136-527-262	Sequence 262, App
c 134	18.8	60.6	3311	6	US-10-750-185-39251	Sequence 39251, A	c 207	18.4	59.4	11462	7	US-11-140-417-22	Sequence 22, Appl
c 135	18.8	60.6	3311	6	US-10-750-623-39251	Sequence 39251, A	c 208	18.4	59.4	12726	6	US-10-995-561-13384	Sequence 13384, A
c 136	18.8	60.6	3507	6	US-10-509-422-1	Sequence 1, Appli	c 209	18.4	59.4	15234	7	US-11-136-527-306	Sequence 306, App
c 137	18.8	60.6	3704	6	US-10-509-422-3	Sequence 3, Appli	c 210	18.4	59.4	17112	7	US-11-176-253-2	Sequence 2, Appli
c 138	18.8	60.6	3936	7	US-11-000-688-752	Sequence 752, App	c 211	18.4	59.4	18592	7	US-11-157-743-1	Sequence 1, Appli
c 139	18.8	60.6	5133	7	US-11-080-026-1	Sequence 1, Appli	c 212	18.4	59.4	24054	6	US-10-995-561-13373	Sequence 13373, A
c 140	18.8	60.6	5133	7	US-11-000-688-136	Sequence 136, App	c 213	18.4	59.4	34555	6	US-10-623-155-479	Sequence 479, App
c 141	18.8	60.6	5313	7	US-11-103-957-22	Sequence 22, Appl	c 214	18.4	59.4	35696	6	US-10-860-436-1	Sequence 1, Appli
c 142	18.8	60.6	5614	7	US-11-136-527-3578	Sequence 3578, App	c 215	18.4	59.4	35893	6	US-10-860-436-2	Sequence 2, Appli
c 143	18.8	60.6	6683	6	US-10-995-561-473	Sequence 473, App	c 216	18.4	59.4	56952	7	US-11-124-368A-2909	Sequence 2909, App
c 144	18.8	60.6	6700	6	US-10-995-561-472	Sequence 472, App	c 217	18.4	59.4	70513	6	US-10-995-561-13368	Sequence 13368, A
c 145	18.8	60.6	6833	6	US-10-995-561-471	Sequence 471, App	c 218	18.4	59.4	141121	6	US-10-995-561-13262	Sequence 13262, A
c 146	18.8	60.6	6871	6	US-10-995-561-474	Sequence 474, App	c 219	18.4	59.4	161994	7	US-11-112-908-57	Sequence 57, Appl
c 147	18.8	60.6	6990	6	US-10-995-561-397	Sequence 397, App	c 220	18.4	59.4	191684	7	US-11-121-086-2	Sequence 2, Appli
c 148	18.8	60.6	7107	6	US-10-995-561-395	Sequence 395, App	c 221	18.4	59.4	191797	7	US-11-121-086-13	Sequence 13, Appl
c 149	18.8	60.6	7143	6	US-10-995-561-393	Sequence 393, App	c 222	18.4	59.4	1125000	6	US-10-995-561-13286	Sequence 13286, A
c 150	18.8	60.6	7168	6	US-10-995-561-394	Sequence 394, App	c 223	18.2	58.7	25	6	US-10-310-914A-943744	Sequence 943744, A
c 151	18.8	60.6	7285	6	US-10-995-561-398	Sequence 398, App	c 224	18.2	58.7	82	6	US-10-310-914A-733	Sequence 733, App
c 152	18.8	60.6	7321	6	US-10-995-561-396	Sequence 396, App	c 225	18.2	58.7	201	6	US-10-995-561-38746	Sequence 38746, A
c 153	18.8	60.6	7474	7	US-11-069-834-49	Sequence 49, Appl	c 226	18.2	58.7	201	6	US-10-995-561-54222	Sequence 54222, A
c 154	18.8	60.6	10129	7	US-11-044-111-21	Sequence 21, Appl	c 227	18.2	58.7	201	6	US-10-995-561-65597	Sequence 65597, A
c 155	18.8	60.6	38449	6	US-10-995-561-13358	Sequence 13358, A	c 228	18.2	58.7	201	6	US-10-995-561-79234	Sequence 79234, A
c 156	18.8	60.6	149419	7	US-11-112-908-49	Sequence 49, Appl	c 229	18.2	58.7	201	6	US-10-995-561-79326	Sequence 79326, A
c 157	18.8	60.6	157224	7	US-11-112-908-51	Sequence 51, Appl	c 230	18.2	58.7	304	7	US-11-128-061-889	Sequence 889, App
c 158	18.8	60.6	161726	7	US-11-112-908-48	Sequence 48, Appl	c 231	18.2	58.7	304	7	US-11-128-061-4531	Sequence 4531, App
c 159	18.8	60.6	161726	7	US-11-112-908-52	Sequence 52, Appl	c 232	18.2	58.7	433	7	US-11-128-061-2656	Sequence 2656, App
c 160	18.8	60.6	170189	7	US-11-112-908-50	Sequence 50, Appl	c 233	18.2	58.7	433	7	US-11-128-061-6298	Sequence 6298, App
c 161	18.8	60.6	171936	6	US-10-933-025-24	Sequence 24, Appl	c 234	18.2	58.7	433	7	US-11-128-061-2640	Sequence 2640, App
c 162	18.8	60.6	198161	6	US-10-775-169-52	Sequence 52, Appl	c 235	18.2	58.7	494	7	US-11-128-061-6282	Sequence 6282, App
c 163	18.6	60.0	201	6	US-10-995-561-80548	Sequence 80548, A	c 236	18.2	58.7	524	7	US-11-128-061-1712	Sequence 1712, App
c 164	18.6	60.0	4847	6	US-10-750-185-60280	Sequence 60280, A	c 237	18.2	58.7	524	7	US-11-128-061-5354	Sequence 5354, App
c 165	18.6	60.0	4847	6	US-10-750-623-60280	Sequence 60280, A	c 238	18.2	58.7	600	7	US-11-136-527-5727	Sequence 5727, App
c 166	18.6	60.0	12884	6	US-10-995-561-13247	Sequence 13247, A	c 239	18.2	58.7	766	7	US-11-136-527-1631	Sequence 1631, App
c 167	18.6	60.0	13884	6	US-10-995-561-13376	Sequence 13376, A	c 240	18.2	58.7	846	7	US-11-143-401-20	Sequence 20, Appl
c 168	18.6	60.0	19864	6	US-10-995-561-13218	Sequence 13218, A	c 241	18.2	58.7	1009	6	US-10-750-185-28782	Sequence 28782, A
c 169	18.6	60.0	188682	7	US-11-112-908-23	Sequence 23, Appl	c 242	18.2	58.7	1009	6	US-10-750-623-28782	Sequence 28782, A

243	18.2	58.7	1026	6	US-10-821-234-776	Sequence 776, App	316	18	58.1	201	6	US-10-995-561-5951	Sequence 5951, Ap
244	18.2	58.7	1176	6	US-10-750-185-40322	Sequence 40322, A	317	18	58.1	201	6	US-10-995-561-30555	Sequence 30555, A
245	18.2	58.7	1176	6	US-10-750-623-40322	Sequence 40322, A	318	18	58.1	201	6	US-10-995-561-77810	Sequence 77810, A
246	18.2	58.7	1205	6	US-10-750-185-30328	Sequence 30328, A	319	18	58.1	201	6	US-10-995-561-78063	Sequence 78063, A
247	18.2	58.7	1205	6	US-10-750-623-30328	Sequence 30328, A	320	18	58.1	300	7	US-11-136-527-482	Sequence 482, App
248	18.2	58.7	1227	6	US-11-000-463-567	Sequence 567, App	321	18	58.1	300	7	US-11-136-527-4578	Sequence 4578, Ap
249	18.2	58.7	1273	6	US-10-750-185-54569	Sequence 54569, A	322	18	58.1	600	7	US-11-136-527-5628	Sequence 5628, Ap
250	18.2	58.7	1273	6	US-10-750-623-54569	Sequence 54569, A	323	18	58.1	768	7	US-11-136-527-1532	Sequence 1532, Ap
251	18.2	58.7	1278	7	US-11-000-463-95	Sequence 95, Appl	324	18	58.1	782	7	US-11-112-908-461	Sequence 461, App
252	18.2	58.7	1400	7	US-11-136-527-6579	Sequence 6579, Ap	325	18	58.1	970	6	US-10-750-185-52300	Sequence 52300, A
253	18.2	58.7	1400	7	US-11-136-527-7060	Sequence 7060, Ap	326	18	58.1	970	6	US-10-750-623-52300	Sequence 52300, A
254	18.2	58.7	1407	7	US-11-136-527-3824	Sequence 3824, Ap	327	18	58.1	1227	7	US-11-150-845-11	Sequence 11, Appl
255	18.2	58.7	1422	6	US-10-750-185-30006	Sequence 30006, A	328	18	58.1	1232	6	US-10-750-185-44997	Sequence 44997, A
256	18.2	58.7	1422	6	US-10-750-623-30006	Sequence 30006, A	329	18	58.1	1232	6	US-10-750-623-44997	Sequence 44997, A
257	18.2	58.7	1547	6	US-10-131-826A-417	Sequence 417, App	330	18	58.1	1518	7	US-11-134-563-5	Sequence 5, Appl
258	18.2	58.7	1634	6	US-10-750-185-45804	Sequence 45804, A	331	18	58.1	1518	7	US-11-150-845-3	Sequence 3, Appl
259	18.2	58.7	1634	6	US-10-750-623-45804	Sequence 45804, A	332	18	58.1	1581	6	US-10-750-185-47608	Sequence 47608, A
260	18.2	58.7	1677	6	US-10-750-185-57998	Sequence 57998, A	333	18	58.1	1581	6	US-10-750-623-47608	Sequence 47608, A
261	18.2	58.7	1677	6	US-10-750-623-57998	Sequence 57998, A	334	18	58.1	1677	6	US-10-512-109-10	Sequence 10, Appl
262	18.2	58.7	1766	6	US-10-967-648A-3	Sequence 3, Appl	335	18	58.1	1743	7	US-11-122-144-9	Sequence 9, Appl
263	18.2	58.7	1866	6	US-10-955-054A-5	Sequence 5, Appl	336	18	58.1	1792	6	US-11-000-688-18329	Sequence 18329, Ap
264	18.2	58.7	1891	6	US-10-750-185-61490	Sequence 61490, A	337	18	58.1	1893	6	US-10-750-185-58977	Sequence 58977, A
265	18.2	58.7	1891	6	US-10-750-623-61490	Sequence 61490, A	338	18	58.1	1893	6	US-10-750-623-58977	Sequence 58977, A
266	18.2	58.7	1988	7	US-11-136-527-2690	Sequence 2690, Ap	339	18	58.1	1914	7	US-11-150-845-23	Sequence 23, Appl
267	18.2	58.7	2010	6	US-10-821-234-248	Sequence 248, App	340	18	58.1	1962	7	US-11-150-845-21	Sequence 21, Appl
268	18.2	58.7	2077	7	US-11-136-527-548	Sequence 548, App	341	18	58.1	2151	7	US-11-150-845-15	Sequence 15, Appl
269	18.2	58.7	2174	6	US-10-750-185-60819	Sequence 60819, A	342	18	58.1	2151	7	US-10-821-234-307	Sequence 307, App
270	18.2	58.7	2174	6	US-10-750-623-60819	Sequence 60819, A	343	18	58.1	3417	7	US-11-080-991-47	Sequence 47, Appl
271	18.2	58.7	2401	6	US-10-955-054A-137	Sequence 137, App	344	18	58.1	4246	7	US-11-059-814-19	Sequence 19, Appl
272	18.2	58.7	2421	7	US-11-110-082-17	Sequence 17, Appl	345	18	58.1	4328	6	US-10-947-249-74	Sequence 74, Appl
273	18.2	58.7	2446	7	US-11-136-527-3071	Sequence 3071, Ap	346	18	58.1	5244	6	US-10-750-185-39144	Sequence 39144, A
274	18.2	58.7	2555	7	US-11-136-527-2964	Sequence 2964, Ap	347	18	58.1	5244	6	US-10-750-623-39144	Sequence 39144, A
275	18.2	58.7	2712	6	US-10-821-234-8	Sequence 8, Appl	348	18	58.1	8910	6	US-10-821-234-281	Sequence 281, App
276	18.2	58.7	2740	6	US-10-955-054A-101	Sequence 101, App	349	18	58.1	8923	7	US-11-000-688-1582	Sequence 1582, Ap
277	18.2	58.7	2896	6	US-10-504-599A-15	Sequence 15, Appl	350	18	58.1	8978	6	US-10-995-561-174	Sequence 174, App
278	18.2	58.7	2919	6	US-10-821-234-735	Sequence 735, App	351	18	58.1	9028	6	US-10-995-561-171	Sequence 171, App
279	18.2	58.7	2943	7	US-11-000-688-1535	Sequence 1535, Ap	352	18	58.1	26000	6	US-10-949-720-391	Sequence 391, App
280	18.2	58.7	3030	7	US-11-128-061-3297	Sequence 3297, Ap	353	18	58.1	128978	6	US-10-775-169-345	Sequence 345, App
281	18.2	58.7	3133	7	US-11-000-463-108	Sequence 108, App	354	18	58.1	150038	7	US-11-121-086-23	Sequence 23, Appl
282	18.2	58.7	3193	6	US-11-108-172-1114	Sequence 1114, Ap	355	18	58.1	155151	7	US-11-112-908-42	Sequence 42, Appl
283	18.2	58.7	3198	6	US-10-909-125-793	Sequence 793, App	356	18	58.1	156544	7	US-11-121-086-81	Sequence 81, Appl
284	18.2	58.7	3198	7	US-11-000-688-965	Sequence 965, App	357	18	58.1	177623	7	US-11-112-908-41	Sequence 41, Appl
285	18.2	58.7	3308	6	US-10-750-185-51682	Sequence 51682, A	358	18	58.1	187986	6	US-10-995-561-13252	Sequence 13252, A
286	18.2	58.7	3308	6	US-10-750-623-51682	Sequence 51682, A	359	18	58.1	268986	6	US-10-933-025-22	Sequence 22, Appl
287	18.2	58.7	3424	6	US-10-775-169-111	Sequence 111, App	360	18	58.1	340000	7	US-11-102-978-3	Sequence 3, Appl
288	18.2	58.7	3753	7	US-11-136-527-2483	Sequence 2483, Ap	361	17.8	57.4	142	6	US-10-789-273-25	Sequence 25, Appl
289	18.2	58.7	3933	7	US-11-136-527-4041	Sequence 4041, Ap	362	17.8	57.4	201	6	US-10-995-561-53297	Sequence 53297, A
290	18.2	58.7	3985	7	US-11-000-688-358	Sequence 358, App	363	17.8	57.4	201	6	US-10-995-561-53480	Sequence 53480, A
291	18.2	58.7	4803	7	US-11-136-527-586	Sequence 586, App	364	17.8	57.4	201	6	US-10-995-561-53496	Sequence 53496, A
292	18.2	58.7	5221	6	US-10-821-234-367	Sequence 367, App	365	17.8	57.4	201	6	US-10-995-561-53557	Sequence 53557, A
293	18.2	58.7	5256	7	US-11-103-957-46	Sequence 46, Appl	366	17.8	57.4	201	6	US-10-995-561-54193	Sequence 54193, A
294	18.2	58.7	5293	7	US-11-000-688-1101	Sequence 1101, Ap	367	17.8	57.4	201	6	US-10-995-561-66228	Sequence 66228, A
295	18.2	58.7	5371	6	US-10-821-234-274	Sequence 274, App	368	17.8	57.4	201	6	US-10-995-561-66562	Sequence 66562, A
296	18.2	58.7	5390	6	US-10-849-438-4	Sequence 4, Appl	369	17.8	57.4	201	6	US-10-995-561-66589	Sequence 66589, A
297	18.2	58.7	5801	7	US-11-000-463-580	Sequence 580, App	370	17.8	57.4	201	6	US-10-995-561-66663	Sequence 66663, A
298	18.2	58.7	5801	7	US-11-000-463-580	Sequence 580, App	371	17.8	57.4	201	6	US-10-995-561-74026	Sequence 74026, A
299	18.2	58.7	6021	7	US-11-136-527-274	Sequence 274, App	372	17.8	57.4	201	6	US-10-995-561-74035	Sequence 74035, A
300	18.2	58.7	14896	7	US-11-000-688-946	Sequence 946, App	373	17.8	57.4	201	6	US-10-995-561-74036	Sequence 74036, A
301	18.2	58.7	15457	6	US-11-136-527-2809	Sequence 2809, Ap	374	17.8	57.4	201	6	US-10-995-561-74107	Sequence 74107, A
302	18.2	58.7	15510	6	US-10-995-561-13281	Sequence 13281, A	375	17.8	57.4	201	6	US-10-995-561-78346	Sequence 78346, A
303	18.2	58.7	17517	7	US-11-136-527-3650	Sequence 3650, App	376	17.8	57.4	201	6	US-10-995-561-78470	Sequence 78470, A
304	18.2	58.7	27032	6	US-10-995-561-13468	Sequence 13468, A	377	17.8	57.4	201	6	US-10-995-561-79212	Sequence 79212, A
305	18.2	58.7	35770	6	US-10-995-561-13296	Sequence 13296, A	378	17.8	57.4	201	6	US-10-995-561-79299	Sequence 79299, A
306	18.2	58.7	42823	7	US-11-066-725-18	Sequence 18, Appl	379	17.8	57.4	201	6	US-10-995-561-83629	Sequence 83629, A
307	18.2	58.7	148220	7	US-11-121-086-90	Sequence 90, Appl	380	17.8	57.4	201	6	US-10-995-561-83879	Sequence 83879, A
308	18.2	58.7	166639	7	US-11-121-086-52	Sequence 52, Appl	381	17.8	57.4	414	6	US-10-789-273-36	Sequence 36, Appl
309	18.2	58.7	169495	7	US-11-121-086-61	Sequence 61, Appl	382	17.8	57.4	415	6	US-10-789-273-37	Sequence 37, Appl
310	18.2	58.7	176503	7	US-11-121-086-53	Sequence 53, Appl	383	17.8	57.4	415	6	US-11-108-172-599	Sequence 599, App
311	18.2	58.7	197096	7	US-11-121-086-107	Sequence 107, App	384	17.8	57.4	423	6	US-10-821-234-495	Sequence 495, App
312	18.2	58.7	1691140	7	US-11-091-018-1	Sequence 1, Appl	385	17.8	57.4	589	6	US-10-750-185-46149	Sequence 46149, A
313	18	58.1	201	6	US-10-995-561-3431	Sequence 3431, Ap	386	17.8	57.4	589	6	US-10-750-623-46149	Sequence 46149, A
314	18	58.1	201	6	US-10-995-561-3452	Sequence 3452, Ap	387	17.8	57.4	600	7	US-11-136-527-7339	Sequence 7339, Ap
315	18	58.1	201	6	US-10-995-561-5851	Sequence 5851, Ap	388	17.8	57.4	658	6	US-10-750-185-60618	Sequence 60618, A

C 389	17.8	57.4	658	6	US-10-750-623-60618	Sequence 60618, A	c 462	17.8	57.4	13395	6	US-10-995-561-13452	Sequence 13452, A
C 390	17.8	57.4	773	7	US-11-110-082-3	Sequence 3, Appli	463	17.8	57.4	13357	6	US-10-995-561-13481	Sequence 13481, A
C 391	17.8	57.4	809	6	US-10-750-185-41976	Sequence 41976, A	464	17.8	57.4	18849	6	US-10-995-561-13482	Sequence 13482, A
C 392	17.8	57.4	809	6	US-10-750-623-41976	Sequence 41976, A	465	17.8	57.4	27509	6	US-10-995-561-13319	Sequence 13319, A
C 393	17.8	57.4	831	7	US-11-110-082-2	Sequence 2, Appli	466	17.8	57.4	27852	6	US-10-995-561-13312	Sequence 13312, A
C 394	17.8	57.4	837	6	US-10-750-185-33261	Sequence 33261, A	c 466	17.8	57.4	28786	6	US-10-995-561-13324	Sequence 13324, A
C 395	17.8	57.4	837	6	US-10-750-623-33261	Sequence 33261, A	c 467	17.8	57.4	35101	6	US-10-995-561-13315	Sequence 13315, A
C 396	17.8	57.4	933	6	US-10-750-185-40946	Sequence 40946, A	468	17.8	57.4	40000	6	US-10-995-561-13309	Sequence 13309, A
C 397	17.8	57.4	933	6	US-10-750-623-40946	Sequence 40946, A	470	17.8	57.4	53331	6	US-10-995-561-13476	Sequence 13476, A
C 398	17.8	57.4	1032	6	US-10-750-185-37002	Sequence 37002, A	471	17.8	57.4	63984	7	US-11-121-086-26	Sequence 26, Appl
C 399	17.8	57.4	1032	6	US-10-750-623-37002	Sequence 37002, A	472	17.8	57.4	70513	6	US-10-995-561-13368	Sequence 13368, A
C 400	17.8	57.4	1063	6	US-10-750-185-39904	Sequence 39904, A	473	17.8	57.4	92600	6	US-10-857-780-1	Sequence 1, Appli
C 401	17.8	57.4	1063	6	US-10-750-623-39904	Sequence 39904, A	c 474	17.8	57.4	131855	7	US-11-112-908-29	Sequence 29, Appl
C 402	17.8	57.4	1145	6	US-10-947-249-119	Sequence 119, App	c 475	17.8	57.4	137000	6	US-10-515-538-11	Sequence 11, Appl
C 403	17.8	57.4	1163	6	US-10-750-185-38381	Sequence 38381, A	c 476	17.8	57.4	150173	7	US-11-112-908-26	Sequence 26, Appl
C 404	17.8	57.4	1163	6	US-10-750-623-38381	Sequence 38381, A	477	17.8	57.4	150450	7	US-11-112-908-54	Sequence 54, Appl
C 405	17.8	57.4	1240	7	US-11-112-908-481	Sequence 481, App	478	17.8	57.4	160226	7	US-11-121-086-29	Sequence 29, Appl
C 406	17.8	57.4	1347	6	US-10-750-185-34767	Sequence 34767, A	479	17.8	57.4	166020	7	US-11-112-908-28	Sequence 28, Appl
C 407	17.8	57.4	1347	6	US-10-750-623-34767	Sequence 34767, A	c 480	17.8	57.4	171247	7	US-11-112-908-27	Sequence 27, Appl
C 408	17.8	57.4	1400	7	US-11-136-527-7815	Sequence 7815, Ap	c 481	17.8	57.4	235033	7	US-11-157-389-1	Sequence 1, Appli
C 409	17.8	57.4	1400	7	US-11-128-061-3650	Sequence 3650, Ap	c 482	17.8	57.4	237326	7	US-11-157-389-2	Sequence 2, Appli
C 410	17.8	57.4	1404	6	US-10-750-185-56117	Sequence 56117, A	c 483	17.8	57.4	415117	6	US-10-995-561-13274	Sequence 13274, A
C 411	17.8	57.4	1404	6	US-10-750-623-56117	Sequence 56117, A	c 484	17.6	56.8	62	7	US-11-029-003-67	Sequence 67, Appl
C 412	17.8	57.4	1407	7	US-11-128-061-8	Sequence 8, Appli	c 485	17.6	56.8	90	7	US-11-029-003-70	Sequence 70, Appl
C 413	17.8	57.4	1450	7	US-11-140-417-3	Sequence 3, Appli	c 486	17.6	56.8	201	6	US-10-995-561-3441	Sequence 3441, Ap
C 414	17.8	57.4	1453	6	US-10-750-185-54685	Sequence 54685, A	c 487	17.6	56.8	201	6	US-10-995-561-3462	Sequence 3462, Ap
C 415	17.8	57.4	1453	6	US-10-750-623-54685	Sequence 54685, A	c 488	17.6	56.8	201	6	US-10-995-561-24663	Sequence 24663, A
C 416	17.8	57.4	1463	6	US-10-750-185-62812	Sequence 62812, A	c 489	17.6	56.8	201	6	US-10-995-561-78061	Sequence 78061, A
C 417	17.8	57.4	1463	6	US-10-750-623-62812	Sequence 62812, A	c 490	17.6	56.8	507	7	US-11-108-172-155	Sequence 155, App
C 418	17.8	57.4	1578	6	US-10-750-185-63278	Sequence 63278, A	c 491	17.6	56.8	598	6	US-10-750-185-1991	Sequence 1991, Ap
C 419	17.8	57.4	1578	6	US-10-750-623-63278	Sequence 63278, A	c 492	17.6	56.8	598	6	US-10-750-623-39158	Sequence 39158, A
C 420	17.8	57.4	1628	6	US-10-750-185-42180	Sequence 42180, A	c 493	17.6	56.8	1068	6	US-10-750-623-39158	Sequence 39158, A
C 421	17.8	57.4	1628	6	US-10-750-623-42180	Sequence 42180, A	c 494	17.6	56.8	1530	6	US-10-750-185-56478	Sequence 56478, A
C 422	17.8	57.4	1693	6	US-10-750-185-31767	Sequence 31767, A	c 495	17.6	56.8	1530	6	US-10-750-623-56478	Sequence 56478, A
C 423	17.8	57.4	1693	6	US-10-750-623-31767	Sequence 31767, A	c 496	17.6	56.8	1584	6	US-10-750-185-54885	Sequence 54885, A
C 424	17.8	57.4	1738	6	US-10-750-185-40789	Sequence 40789, A	c 497	17.6	56.8	1584	6	US-10-750-623-54885	Sequence 54885, A
C 425	17.8	57.4	1738	6	US-10-750-623-40789	Sequence 40789, A	c 498	17.6	56.8	1584	6	US-10-750-623-54885	Sequence 54885, A
C 426	17.8	57.4	1758	7	US-11-150-845-37	Sequence 37, Appl	c 499	17.6	56.8	1585	6	US-10-750-185-63469	Sequence 63469, A
C 427	17.8	57.4	1794	6	US-10-750-185-46336	Sequence 46336, A	c 500	17.6	56.8	1585	6	US-10-750-623-63469	Sequence 63469, A
C 428	17.8	57.4	1794	6	US-10-750-623-46336	Sequence 46336, A	c 501	17.6	56.8	1585	6	US-10-750-185-28668	Sequence 28668, A
C 429	17.8	57.4	1795	6	US-10-750-185-55173	Sequence 55173, A	c 502	17.6	56.8	1585	6	US-10-750-623-28668	Sequence 28668, A
C 430	17.8	57.4	1795	6	US-10-750-623-55173	Sequence 55173, A	c 503	17.6	56.8	1585	6	US-10-750-185-62429	Sequence 62429, A
C 431	17.8	57.4	1872	6	US-10-453-372-1125	Sequence 1125, Ap	c 504	17.6	56.8	2005	6	US-10-750-623-62429	Sequence 62429, A
C 432	17.8	57.4	1872	6	US-10-453-372-1125	Sequence 1125, Ap	c 505	17.6	56.8	2090	6	US-10-420-192-7	Sequence 7, Appli
C 433	17.8	57.4	2094	6	US-10-750-185-58442	Sequence 58442, A	c 506	17.6	56.8	2338	7	US-11-136-527-2898	Sequence 2898, Ap
C 434	17.8	57.4	2094	6	US-10-750-623-58442	Sequence 58442, A	c 507	17.6	56.8	3415	6	US-10-995-561-86	Sequence 86, Appl
C 435	17.8	57.4	2353	6	US-10-750-185-40522	Sequence 40522, A	c 508	17.6	56.8	3580	6	US-10-995-561-87	Sequence 87, Appl
C 436	17.8	57.4	2353	6	US-10-750-623-40522	Sequence 40522, A	c 509	17.6	56.8	4270	7	US-11-150-845-39	Sequence 39, Appl
C 437	17.8	57.4	2380	7	US-11-136-527-3376	Sequence 3376, Ap	c 510	17.6	56.8	11438	6	US-10-821-234-224	Sequence 224, App
C 438	17.8	57.4	2479	7	US-10-821-234-150	Sequence 150, App	c 511	17.6	56.8	11612	6	US-10-995-561-499	Sequence 499, App
C 439	17.8	57.4	2492	6	US-10-750-185-36838	Sequence 36838, A	c 512	17.6	56.8	11684	6	US-10-995-561-498	Sequence 498, App
C 440	17.8	57.4	2518	6	US-10-750-623-36838	Sequence 36838, A	c 513	17.6	56.8	18394	6	US-10-995-561-13367	Sequence 13367, A
C 441	17.8	57.4	2518	6	US-10-873-325-8	Sequence 8, Appli	c 514	17.6	56.8	54946	6	US-10-995-561-13479	Sequence 13479, A
C 442	17.8	57.4	2655	6	US-10-453-372-1123	Sequence 1123, Ap	c 515	17.6	56.8	90572	7	US-11-124-368A-13479	Sequence 2300, Ap
C 443	17.8	57.4	2800	6	US-11-136-527-2544	Sequence 2544, Ap	c 516	17.6	56.8	141121	6	US-10-995-561-13262	Sequence 13262, A
C 444	17.8	57.4	2928	7	US-11-136-527-7544	Sequence 7544, Ap	c 517	17.6	56.8	159497	7	US-11-112-908-61	Sequence 61, Appl
C 445	17.8	57.4	3332	7	US-11-128-061-703	Sequence 703, App	c 518	17.6	56.8	175100	7	US-11-121-086-21	Sequence 21, Appl
C 446	17.8	57.4	3671	6	US-10-131-826A-141	Sequence 141, App	c 519	17.6	56.8	187786	6	US-10-995-561-13474	Sequence 13474, A
C 447	17.8	57.4	3829	7	US-11-136-527-1883	Sequence 1883, Ap	c 520	17.6	56.8	200628	7	US-11-121-086-62	Sequence 62, Appl
C 448	17.8	57.4	4229	6	US-10-821-234-238	Sequence 238, App	c 521	17.6	56.8	387780	6	US-10-995-561-13259	Sequence 1, Appli
C 449	17.8	57.4	4500	6	US-10-453-372-1127	Sequence 1127, Ap	c 522	17.6	56.8	1080000	6	US-10-928-446A-1	Sequence 181, App
C 450	17.8	57.4	4551	6	US-10-220-824-7	Sequence 7, Appli	c 523	17.6	56.8	1080000	6	US-10-928-446A-181	Sequence 183, App
C 451	17.8	57.4	4551	6	US-10-955-054A-71	Sequence 71, Appli	c 524	17.6	56.8	1080000	6	US-10-928-446A-193	Sequence 185, App
C 452	17.8	57.4	4847	7	US-11-136-527-2614	Sequence 2614, Ap	c 525	17.6	56.8	1080000	6	US-10-928-446A-187	Sequence 187, App
C 453	17.8	57.4	5119	7	US-11-108-528-81	Sequence 81, Appl	c 526	17.6	56.8	1080000	6	US-10-928-446A-189	Sequence 189, App
C 454	17.8	57.4	5196	7	US-11-150-888-11	Sequence 11, Appl	c 527	17.6	56.8	1080000	6	US-10-928-446A-191	Sequence 191, App
C 455	17.8	57.4	5534	7	US-11-040-472-11	Sequence 11, Appl	c 528	17.6	56.8	1080000	6	US-10-928-446A-193	Sequence 193, App
C 456	17.8	57.4	5595	6	US-10-955-054A-11	Sequence 11, Appl	c 529	17.6	56.8	1080000	6	US-10-928-446A-195	Sequence 195, App
C 457	17.8	57.4	5941	7	US-11-136-527-275	Sequence 275, App	c 530	17.6	56.8	1080000	6	US-10-928-446A-197	Sequence 197, App
C 458	17.8	57.4	7653	7	US-11-136-527-2934	Sequence 2934, Ap	c 531	17.6	56.8	1080000	6	US-10-928-446A-199	Sequence 199, App
C 459	17.8	57.4	7787	6	US-10-947-249-195	Sequence 195, App	c 532	17.6	56.8	1080000	6	US-10-928-446A-201	Sequence 201, App
C 460	17.8	57.4	8420	7	US-11-136-527-262	Sequence 262, App	c 533	17.6	56.1	1080000	6	US-10-310-914A-995604	Sequence 995604,
C 461	17.8	57.4	8599	7	US-11-136-527-3033	Sequence 3033, Ap	534	17.6	56.1	19	6		





c 681	17.2	55.5	580	7	US-11-128-061-1251	Sequence 1251, Ap	c 754	17.2	55.5	1816	6	US-10-750-185-32013	Sequence 32013, A
c 682	17.2	55.5	580	7	US-11-128-061-1417	Sequence 1417, Ap	c 755	17.2	55.5	1816	6	US-10-750-623-32013	Sequence 32013, A
c 683	17.2	55.5	580	7	US-11-128-061-1493	Sequence 1493, Ap	c 756	17.2	55.5	1818	6	US-10-750-185-34191	Sequence 34191, A
c 684	17.2	55.5	580	7	US-11-128-061-5059	Sequence 5059, Ap	c 757	17.2	55.5	1818	6	US-10-750-623-34191	Sequence 34191, A
c 685	17.2	55.5	588	6	US-10-750-185-4331	Sequence 431, App	c 758	17.2	55.5	1858	6	US-10-821-234-340	Sequence 340, App
c 686	17.2	55.5	598	6	US-10-750-623-4331	Sequence 431, App	c 759	17.2	55.5	1874	6	US-10-750-185-30132	Sequence 30132, A
c 687	17.2	55.5	600	6	US-10-750-185-3839	Sequence 3839, Ap	c 760	17.2	55.5	1874	6	US-10-750-623-30132	Sequence 30132, A
c 688	17.2	55.5	600	6	US-10-750-623-3839	Sequence 3839, Ap	c 761	17.2	55.5	1888	6	US-10-453-372-267	Sequence 267, App
c 689	17.2	55.5	600	7	US-11-136-527-5554	Sequence 5554, Ap	c 762	17.2	55.5	1947	6	US-10-750-185-51012	Sequence 51012, A
c 690	17.2	55.5	600	7	US-11-128-061-7018	Sequence 7018, Ap	c 763	17.2	55.5	1947	6	US-10-750-623-51012	Sequence 51012, A
c 691	17.2	55.5	600	7	US-11-128-061-7030	Sequence 7030, Ap	c 764	17.2	55.5	2008	6	US-10-750-185-35465	Sequence 35465, A
c 692	17.2	55.5	974	6	US-10-750-185-52193	Sequence 52193, A	c 765	17.2	55.5	2008	6	US-10-750-623-35465	Sequence 35465, A
c 693	17.2	55.5	974	6	US-10-750-623-52193	Sequence 52193, A	c 766	17.2	55.5	2037	7	US-11-136-527-997	Sequence 997, App
c 694	17.2	55.5	984	6	US-10-750-185-54474	Sequence 54474, A	c 767	17.2	55.5	2081	6	US-10-750-185-32318	Sequence 32318, A
c 695	17.2	55.5	984	6	US-10-750-185-54474	Sequence 54474, A	c 768	17.2	55.5	2081	6	US-10-750-623-32318	Sequence 32318, A
c 696	17.2	55.5	1012	7	US-11-136-527-1458	Sequence 1458, Ap	c 769	17.2	55.5	2085	6	US-10-750-185-29834	Sequence 29834, A
c 697	17.2	55.5	1071	6	US-10-517-939-2333	Sequence 2333, App	c 770	17.2	55.5	2085	6	US-10-750-623-29834	Sequence 29834, A
c 698	17.2	55.5	1236	6	US-10-467-657-2713	Sequence 2713, Ap	c 771	17.2	55.5	2092	6	US-10-955-054A-41	Sequence 41, Appl
c 699	17.2	55.5	1245	7	US-11-115-868-1	Sequence 1, Appl	c 772	17.2	55.5	2185	7	US-11-136-527-3481	Sequence 3481, Ap
c 700	17.2	55.5	1245	7	US-11-165-305-1	Sequence 1, Appl	c 773	17.2	55.5	2226	6	US-10-750-185-58767	Sequence 58767, A
c 701	17.2	55.5	1249	6	US-10-955-054A-79	Sequence 79, Appl	c 774	17.2	55.5	2226	6	US-10-623-372-263	Sequence 263, App
c 702	17.2	55.5	1277	7	US-11-128-061-3376	Sequence 3376, Ap	c 775	17.2	55.5	2227	6	US-10-453-372-263	Sequence 263, App
c 703	17.2	55.5	1305	6	US-10-821-234-701	Sequence 701, App	c 776	17.2	55.5	2251	7	US-11-128-061-10	Sequence 10, Appl
c 704	17.2	55.5	1321	6	US-10-750-185-51504	Sequence 51504, A	c 777	17.2	55.5	2276	6	US-10-131-826A-9	Sequence 9, Appl
c 705	17.2	55.5	1321	6	US-10-750-623-51504	Sequence 51504, A	c 778	17.2	55.5	2295	7	US-11-136-527-690	Sequence 690, App
c 706	17.2	55.5	1340	6	US-10-750-185-48946	Sequence 48946, A	c 779	17.2	55.5	2312	7	US-11-136-527-3389	Sequence 3389, Ap
c 707	17.2	55.5	1340	6	US-10-750-623-48946	Sequence 48946, A	c 780	17.2	55.5	2354	6	US-10-750-185-62735	Sequence 62735, A
c 708	17.2	55.5	1347	6	US-10-750-185-53365	Sequence 53365, A	c 781	17.2	55.5	2354	6	US-10-750-623-62735	Sequence 62735, A
c 709	17.2	55.5	1347	6	US-10-750-623-53365	Sequence 53365, A	c 782	17.2	55.5	2388	7	US-11-218-986-1	Sequence 1, Appl
c 710	17.2	55.5	1366	6	US-10-955-054A-82	Sequence 82, Appl	c 783	17.2	55.5	2396	6	US-10-821-234-315	Sequence 315, App
c 711	17.2	55.5	1400	7	US-11-136-527-6264	Sequence 6264, Ap	c 784	17.2	55.5	2472	6	US-10-750-185-56549	Sequence 56549, A
c 712	17.2	55.5	1400	7	US-11-128-061-3652	Sequence 3652, Ap	c 785	17.2	55.5	2472	6	US-10-750-623-56549	Sequence 56549, A
c 713	17.2	55.5	1400	7	US-11-128-061-4007	Sequence 4007, Ap	c 786	17.2	55.5	2538	7	US-11-128-061-3388	Sequence 3388, Ap
c 714	17.2	55.5	1438	6	US-10-750-185-28486	Sequence 28486, A	c 787	17.2	55.5	2574	6	US-10-750-185-46896	Sequence 46896, A
c 715	17.2	55.5	1438	6	US-10-750-623-28486	Sequence 28486, A	c 788	17.2	55.5	2574	6	US-10-750-623-46896	Sequence 46896, A
c 716	17.2	55.5	1469	6	US-10-995-561-488	Sequence 488, App	c 789	17.2	55.5	2581	6	US-10-750-185-57545	Sequence 57545, A
c 717	17.2	55.5	1480	6	US-10-750-185-35745	Sequence 35745, A	c 790	17.2	55.5	2581	6	US-10-750-623-57545	Sequence 57545, A
c 718	17.2	55.5	1480	6	US-10-750-623-35745	Sequence 35745, A	c 791	17.2	55.5	2599	6	US-10-750-185-61828	Sequence 61828, A
c 719	17.2	55.5	1498	7	US-11-136-527-2168	Sequence 2168, Ap	c 792	17.2	55.5	2599	6	US-10-750-623-61828	Sequence 61828, A
c 720	17.2	55.5	1499	7	US-11-136-527-79	Sequence 79, Appl	c 793	17.2	55.5	2668	6	US-10-750-185-55553	Sequence 55553, A
c 721	17.2	55.5	1539	6	US-10-955-054A-90	Sequence 90, Appl	c 794	17.2	55.5	2668	6	US-10-750-623-55553	Sequence 55553, A
c 722	17.2	55.5	1540	6	US-10-750-185-63243	Sequence 63243, A	c 795	17.2	55.5	2715	7	US-11-124-368A-138	Sequence 138, App
c 723	17.2	55.5	1540	6	US-10-750-623-63243	Sequence 63243, A	c 796	17.2	55.5	2745	7	US-11-128-061-365	Sequence 365, App
c 724	17.2	55.5	1567	6	US-10-750-185-28009	Sequence 28009, A	c 797	17.2	55.5	2748	6	US-10-821-234-662	Sequence 662, App
c 725	17.2	55.5	1567	6	US-10-750-623-28009	Sequence 28009, A	c 798	17.2	55.5	2762	6	US-10-750-185-34426	Sequence 34426, A
c 726	17.2	55.5	1581	7	US-11-124-368A-37	Sequence 37, Appl	c 799	17.2	55.5	2762	6	US-10-750-623-34426	Sequence 34426, A
c 727	17.2	55.5	1607	6	US-10-750-185-60039	Sequence 60039, A	c 800	17.2	55.5	2834	7	US-11-000-688-949	Sequence 949, App
c 728	17.2	55.5	1607	6	US-10-750-623-60039	Sequence 60039, A	c 801	17.2	55.5	2865	6	US-10-750-185-41541	Sequence 41541, A
c 729	17.2	55.5	1608	6	US-10-750-185-31906	Sequence 31906, A	c 802	17.2	55.5	2865	6	US-10-750-623-41541	Sequence 41541, A
c 730	17.2	55.5	1608	6	US-10-750-623-31906	Sequence 31906, A	c 803	17.2	55.5	2985	6	US-10-750-185-43750	Sequence 43750, A
c 731	17.2	55.5	1614	6	US-10-750-185-62982	Sequence 62982, A	c 804	17.2	55.5	2985	6	US-10-750-623-43750	Sequence 43750, A
c 732	17.2	55.5	1614	6	US-10-750-623-62982	Sequence 62982, A	c 805	17.2	55.5	3001	6	US-10-770-726-32	Sequence 32, Appl
c 733	17.2	55.5	1617	7	US-11-124-368A-36	Sequence 36, Appl	c 806	17.2	55.5	3016	6	US-10-750-185-49452	Sequence 49452, A
c 734	17.2	55.5	1634	6	US-10-750-185-54936	Sequence 54936, A	c 807	17.2	55.5	3016	6	US-10-750-623-49452	Sequence 49452, A
c 735	17.2	55.5	1634	6	US-10-750-623-54936	Sequence 54936, A	c 808	17.2	55.5	3109	6	US-10-821-234-63	Sequence 63, Appl
c 736	17.2	55.5	1638	7	US-11-124-368A-32	Sequence 32, Appl	c 809	17.2	55.5	3122	6	US-10-750-185-33623	Sequence 33623, A
c 737	17.2	55.5	1638	7	US-11-124-368A-34	Sequence 34, Appl	c 810	17.2	55.5	3122	6	US-10-750-623-33623	Sequence 33623, A
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c 741	17.2	55.5	1679	6	US-10-750-185-59104	Sequence 59104, A	c 814	17.2	55.5	3200	6	US-10-750-185-36043	Sequence 36043, A
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c 744	17.2	55.5	1713	6	US-10-821-234-438	Sequence 438, App	c 817	17.2	55.5	3303	6	US-10-995-561-486	Sequence 486, App
c 745	17.2	55.5	1729	6	US-10-750-185-59567	Sequence 59567, A	c 818	17.2	55.5	3373	6	US-10-995-561-481	Sequence 481, App
c 746	17.2	55.5	1729	6	US-10-750-623-59567	Sequence 59567, A	c 819	17.2	55.5	3442	6	US-10-995-561-480	Sequence 480, App
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c 828	17.2	55.5	4103	6	US-10-453-372-259	Sequence 259, App	c 901	17	54.8	577	7	US-11-128-061-2875	Sequence 2875, Ap
c 829	17.2	55.5	4111	6	US-11-000-688-527	Sequence 527, App	c 902	17	54.8	577	7	US-11-128-061-2875	Sequence 2875, Ap
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c 844	17.2	55.5	7860	6	US-10-453-372-265	Sequence 265, App	c 917	17	54.8	1136	6	US-10-750-185-39289	Sequence 39289, A
c 845	17.2	55.5	7892	6	US-10-453-372-257	Sequence 257, App	c 918	17	54.8	1183	6	US-10-995-561-504	Sequence 504, App
c 846	17.2	55.5	7892	6	US-10-453-372-279	Sequence 279, App	c 919	17	54.8	1236	6	US-10-750-185-27355	Sequence 27355, A
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c 849	17.2	55.5	14603	6	US-10-995-561-13361	Sequence 13361, A	c 922	17	54.8	1311	6	US-10-750-185-56560	Sequence 56560, A
c 850	17.2	55.5	23555	6	US-10-995-561-13336	Sequence 13336, A	c 923	17	54.8	1391	6	US-10-750-185-31301	Sequence 31301, A
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## ALIGNMENTS

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RESULT 1
US-11-134-241-47/c
; Sequence 47, Application US/11134241
; Publication No. US20050287568A1
; GENERAL INFORMATION:
; APPLICANT: Donoho, Gregory
; APPLICANT: Hilbun, Erin
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Friedrich, Glenn
; APPLICANT: Abuin, Alejandro
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; APPLICANT: Walke, D. Wade
; APPLICANT: Wilganowski, Nathaniel L.
; APPLICANT: Hu, Yi
; APPLICANT: Kieke, James Alvin
; APPLICANT: Potter, David George
; TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND
; FILE REFERENCE: LEX-0144-USA
; CURRENT APPLICATION NUMBER: US/11/134,241
; CURRENT FILING DATE: 2005-05-20
; PRIOR FILING DATE: 2003-02-11
; PRIOR FILING DATE: 2003-02-11
; PRIOR FILING DATE: 2003-02-11
; PRIOR FILING DATE: 2001-02-28
; PRIOR FILING DATE: 2001-02-28
; PRIOR FILING DATE: 2000-02-29
; PRIOR FILING DATE: 2000-02-29
; PRIOR FILING DATE: 2000-03-02
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 795
; TYPE: DNA
; ORGANISM: homo sapiens
US-11-134-241-47

Query Match 76.1%; Score 23.6; DB 7; Length 795;
Best Local Similarity 86.7%; Pred. No. 19;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 133 GCTTCAGCGCCAGCCCCCACTCTCTCTCCA 104

RESULT 2
US-10-821-234-830/c
; Sequence 830, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 830
; LENGTH: 3332
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-830

Query Match 74.2%; Score 23; DB 6; Length 3332;
Best Local Similarity 83.3%; Pred. No. 30;
Matches 26; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACTCTCTTCTCCAG 31
Db 828 GCTGTCGCCGACGTGCACCTCTCTTCTCCAG 798

RESULT 3
US-10-995-561-14370
; Sequence 14370, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14370
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-14370

Query Match 69.0%; Score 21.4; DB 6; Length 201;
Best Local Similarity 80.6%; Pred. No. 1e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCCCCACTCTCTTCTCCA 31
Db 68 GCAGCAGCTGCAGCACCACTCTCTTCTCCA 98

RESULT 4
US-10-995-561-14385
; Sequence 14385, Application US/10995561
```

```
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14385
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-14385

Query Match      69.0%; Score 21.4; DB 6; Length 201;
Best Local Similarity 80.6%; Pred. No. 1e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTCCAG 31
   |||||
Db 147 GCAGCAGCTGCAGCACCAGCTCCACCCAG 177

RESULT 5
US-11-136-527-2837
; Sequence 2837, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2837
; LENGTH: 10259
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2837

Query Match      69.0%; Score 21.4; DB 7; Length 10259;
Best Local Similarity 80.6%; Pred. No. 1e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTCCAG 31
   |||||
Db 7310 GCTCCAGCTCCAGCTCCAGCTCCAGCTCCAG 7340

RESULT 6
US-10-995-561-13197
; Sequence 13197, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13197
; LENGTH: 96128
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(96128)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-13)
US-10-995-561-13197

Query Match      69.0%; Score 21.4; DB 6; Length 96128;
Best Local Similarity 80.6%; Pred. No. 1e+02;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTCCAG 31
   |||||
Db 38484 GCAGCAGCTGCAGCACCAGCTCCACCCAG 38514

RESULT 7
US-10-927-641-36
; Sequence 36, Application US/10927641
; Publication No. US20050244968A1
; GENERAL INFORMATION:
; APPLICANT: Perera, Ranjan
; APPLICANT: Rice, Stephen
; APPLICANT: Eagleton, Clare
; APPLICANT: Lasham, Annette
; APPLICANT: Wood, Marion
; APPLICANT: Visser, Elizabeth
; TITLE OF INVENTION: Compositions and Methods for the
; TITLE OF INVENTION: Modification of Gene Expression
; FILE REFERENCE: 11000.1036c4
; CURRENT APPLICATION NUMBER: US/10/927,641
; CURRENT FILING DATE: 2004-08-27
; PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: US/10/137,036
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: PCT/NZ 01/00115
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: U.S. No. 09/724,624
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 09/598,401
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/NZ00/00018
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: U.S. No. 60/146,591
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: U.S. No. 09/276,599
; PRIOR FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 1200
; TYPE: DNA
; ORGANISM: Eucalyptus grandis
US-10-927-641-36

Query Match      68.4%; Score 21.2; DB 6; Length 1200;
Best Local Similarity 88.5%; Pred. No. 1.2e+02;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCACCTCTCTCC 29
   |||||
Db 714 GCAGCTGGTGGCCACCTCTCTCC 739

RESULT 8
US-10-310-914A-10056
; Sequence 10056, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
```

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 10056  
; LENGTH: 89  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-10056

Query Match 67.7%; Score 21; DB 6; Length 89;  
Best Local Similarity 69.0%; Pred. No. 1.4e+02;  
Matches 20; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

Qy 3 TGCAGCTGCAGCCCGCCACCTCTCTTCCAG 31  
Db 9 UGCAGCUCCAGCUCGACGCUCCAGCUCCAG 37

## RESULT 9

US-10-750-185-56691  
; Sequence 56691, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 56691  
; LENGTH: 1035  
; TYPE: DNA  
; ORGANISM: Bovine 19866881218727  
US-10-750-185-56691

Query Match 67.7%; Score 21; DB 6; Length 1035;  
Best Local Similarity 82.8%; Pred. No. 1.4e+02;  
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CTCGAGCTGCAGCCCGCCACCTCTCTTCCCA 30  
Db 770 CAGCAGCGCGAGCCCGCCAGCTCTCTTGACCA 798

## RESULT 10

US-10-750-623-56691  
; Sequence 56691, Application US/10750623  
; Publication No. US20050287531A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-1  
; CURRENT APPLICATION NUMBER: US/10/750,623  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922

; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 56691  
; LENGTH: 1035  
; TYPE: DNA  
; ORGANISM: Bovine 19866881218727  
US-10-750-623-56691

Query Match 67.7%; Score 21; DB 6; Length 1035;  
Best Local Similarity 82.8%; Pred. No. 1.4e+02;  
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CTCGAGCTGCAGCCCGCCACCTCTCTTCCCA 30  
Db 770 CAGCAGCGCGAGCCCGCCAGCTCTCTTGACCA 798

## RESULT 11

US-10-750-185-47557  
; Sequence 47557, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 47557  
; LENGTH: 1750  
; TYPE: DNA  
; ORGANISM: Bovine 19866880959886  
US-10-750-185-47557

Query Match 67.7%; Score 21; DB 6; Length 1750;  
Best Local Similarity 82.8%; Pred. No. 1.4e+02;  
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CTCGAGCTGCAGCCCGCCACCTCTCTTCCCA 30  
Db 819 CTCGAGCTGCTGCTCCATCTCTTCCAGCA 847

## RESULT 12

US-10-750-623-47557  
; Sequence 47557, Application US/10750623  
; Publication No. US20050287531A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-1  
; CURRENT APPLICATION NUMBER: US/10/750,623  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 47557  
; LENGTH: 1750

```
; TYPE: DNA
; ORGANISM: Bovine 19866880959886
US-10-750-623-47557

Query Match          67.7%; Score 21; DB 6; Length 1750;
Best Local Similarity 82.8%; Pred. No. 1.4e+02;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCGCCACCTCTCTTCTCCA 30
    ||||| ||||| ||||| ||||| ||||| ||
Db 819 CTGCAGCTGCTGCTCCATCTCTCTTCAGCA 847

RESULT 13
US-11-136-527-3816/c
; Sequence 3816, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3816
; LENGTH: 4301
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3816

Query Match          67.7%; Score 21; DB 7; Length 4301;
Best Local Similarity 82.8%; Pred. No. 1.4e+02;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCTCC 29
    ||||| ||||| ||||| ||||| ||||| ||
Db 1875 GCTGCTGCTGCAGCTCTCGGCTTCTGC 1847

RESULT 14
US-11-128-061-745/c
; Sequence 745, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 745
; LENGTH: 14619
; TYPE: DNA
; ORGANISM: Cricetulus griseus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2751)..(2765)
; OTHER INFORMATION: n is a, c, g, or t

; TYPE: DNA
; ORGANISM: Bovine 19866880959886
US-10-750-623-47557

Query Match          67.7%; Score 21; DB 6; Length 1750;
Best Local Similarity 82.8%; Pred. No. 1.4e+02;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCGCCACCTCTCTTCTCCA 30
    ||||| ||||| ||||| ||||| ||||| ||
Db 819 CTGCAGCTGCTGCTCCATCTCTCTTCAGCA 847

RESULT 13
US-11-136-527-3816/c
; Sequence 3816, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3816
; LENGTH: 4301
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3816

Query Match          67.7%; Score 21; DB 7; Length 14619;
Best Local Similarity 82.8%; Pred. No. 1.4e+02;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCTCC 29
    ||||| ||||| ||||| ||||| ||||| ||
Db 5701 GCTGCGCTGCGCGCGGCTCTCTGCTCC 5673

RESULT 15
US-11-136-527-8100/c
; Sequence 8100, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8100
; LENGTH: 1400
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-8100

Query Match          66.5%; Score 20.6; DB 7; Length 1400;
Best Local Similarity 85.2%; Pred. No. 1.9e+02;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CTGCAGCTGCAGCCGCCACCTCTCTCTC 28
    ||||| ||||| ||||| ||||| ||||| ||
Db 639 CTGCAGCTGCAGCTCATCTCGCTCTTC 613
```

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RESULT 16
US-11-134-563-7
; Sequence 7, Application US/11134563
; Publication No. US20050287569A1
; GENERAL INFORMATION:
; APPLICANT: Leong, John M.
; APPLICANT: Campellone, Kenneth G.
; TITLE OF INVENTION: ESPFNUCLEIC ACIDS AND PROTEINS AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 07917-280001
; CURRENT APPLICATION NUMBER: US/11/134,563
; CURRENT FILING DATE: 2005-05-20
; PRIOR APPLICATION NUMBER: US 60/573,600
; PRIOR FILING DATE: 2004-05-20
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 1506
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-134-563-7

Query Match      66.5%; Score 20.6; DB 7; Length 1506;
Best Local Similarity 85.2%; Pred. No. 1.9e+02;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCT 27
Db 949 GCTGCACCTCCACTCCACCTCTTCT 975

RESULT 17
US-11-136-527-4004/c
; Sequence 4004, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4004
; LENGTH: 2098
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4004

Query Match      66.5%; Score 20.6; DB 7; Length 2098;
Best Local Similarity 85.2%; Pred. No. 1.9e+02;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 CTCGAGCTGCAGCCACCTCTTCTC 28
Db 1337 CTCGAGCTGCAGCTCATCCGCTTCTC 1311

RESULT 18
US-10-750-185-49752
; Sequence 49752, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
```

```
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 49752
; LENGTH: 916
; TYPE: DNA
; ORGANISM: Bovine 19866880896921
US-10-750-185-49752

Query Match      65.8%; Score 20.4; DB 6; Length 916;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCTCCA 30
Db 463 GCTGGGCGAGCAGCCGCCACCTGGTCTCTCCA 492

RESULT 19
US-10-750-623-49752
; Sequence 49752, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 49752
; LENGTH: 916
; TYPE: DNA
; ORGANISM: Bovine 19866880896921
US-10-750-623-49752

Query Match      65.8%; Score 20.4; DB 6; Length 916;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCACCTCTTCTCCA 30
Db 463 GCTGGGCGAGCAGCCGCCACCTGGTCTCTCCA 492

RESULT 20
US-10-750-185-30841/c
; Sequence 30841, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
```



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; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30841
; LENGTH: 1916
; TYPE: DNA
; ORGANISM: Bovine 19866881390838
US-10-750-185-30841

Query Match          65.8%; Score 20.4; DB 6; Length 1916;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTTCCA 30
   ||||| ||||| ||||| ||||| |||||
Db 1250 GCAGCAGCAGCAGCAGCAGCTCTCTCCCA 1221

RESULT 21
US-10-750-623-30841/c
; Sequence 30841, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750, 623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30841
; LENGTH: 1916
; TYPE: DNA
; ORGANISM: Bovine 19866881390838
US-10-750-623-30841

Query Match          65.8%; Score 20.4; DB 6; Length 1916;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTCTTCCA 30
   ||||| ||||| ||||| ||||| |||||
Db 1250 GCAGCAGCAGCAGCAGCAGCTCTCTCCCA 1221

RESULT 22
US-11-000-463-220/c
; Sequence 220, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
```

```
; CURRENT APPLICATION NUMBER: US/11/000,463
; CURRENT FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 220
; LENGTH: 2784
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (388)..(1776)
US-11-000-463-220

Query Match          65.8%; Score 20.4; DB 7; Length 2784;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTTCTCCA 30
   ||||| ||||| ||||| ||||| |||||
Db 1492 GCGCGCTCTCCGCCCGCCAGCTCTCTCCA 1463

RESULT 23
US-11-121-086-4/c
; Sequence 4, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 164810
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-4

Query Match          65.8%; Score 20.4; DB 7; Length 164810;
Best Local Similarity 80.0%; Pred. No. 2.1e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCACCTCTTCTCCA 30
   ||||| ||||| ||||| ||||| |||||
Db 87068 GCAGCAGCCGCGAGCTCCAGTCTCTGCTCA 87039

RESULT 24
US-11-121-086-3/c
; Sequence 3, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
```

```
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121.086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 168516
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-3

Query Match      65.8%; Score 20.4; DB 7; Length 168516;
Best Local Similarity 80.0%; Pred. No. 2.1e+02;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY  2  CTGCAGCTGCAGCCCCACCTCCTCTCCAG 31
Db  114707 CTCTGCTGCTGCTCCCTCCTCTCTCCGG 114678

RESULT 25
US-11-136-527-4095/c
; Sequence 4095, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4095
; LENGTH: 13187
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4095

Query Match      65.2%; Score 20.2; DB 7; Length 13187;
Best Local Similarity 88.0%; Pred. No. 2.5e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY  2  CTGCAGCTGCAGCCCCACCTCCTCTC 26
Db  5735  CTGCACCTGCAGCTCCTCCTCTC 5711

RESULT 26
US-11-128-061-334/c
; Sequence 334, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/570,425
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4095
; LENGTH: 13187
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-4095
```

```
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 334
; LENGTH: 569
; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-061-334

Query Match      64.5%; Score 20; DB 7; Length 569;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY  4  GCAGCTGCAGCCCCACCTCCTCTCCAG 31
Db  132  GCAGCTTCAGCCCCCAACTCTTTAACCCAG 105

RESULT 27
US-11-128-061-3976/c
; Sequence 3976, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3976
; LENGTH: 569
; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-061-3976

Query Match      64.5%; Score 20; DB 7; Length 569;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY  4  GCAGCTGCAGCCCCACCTCCTCTCCAG 31
Db  132  GCAGCTTCAGCCCCCAACTCTTTAACCCAG 105

RESULT 28
US-11-136-527-1484
; Sequence 1484, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1484
; LENGTH: 957
; TYPE: DNA
; ORGANISM: Rattus norvegicus
```

```
US-11-136-527-1484
Query Match      64.5%; Score 20; DB 7; Length 957;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCACTCTCTCCAG 31
||||| ||||||| ||||||| |||
Db 716 GCAGCTTCAGCCCACTCTCTTAATCAG 743

RESULT 29
US-11-136-527-5580/c
; Sequence 5580, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5580
; LENGTH: 957
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-5580

Query Match      64.5%; Score 20; DB 7; Length 957;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCACTCTCTCCAG 31
||||| ||||||| ||||||| |||
Db 242 GCAGCTTCAGCCCACTCTCTTAATCAG 215

RESULT 30
US-10-750-185-35634
; Sequence 35634, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35634
; LENGTH: 1285
; TYPE: DNA
; ORGANISM: Bovine 19866881179359
US-10-750-185-35634

Query Match      64.5%; Score 20; DB 6; Length 1285;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTCGAGCTGCAGCCCACTCTCTCTCC 29
||||| || ||| ||||||| |||||

Db 2 CTCGAGCTGCAGCCCACTCTCTCTCC 29

RESULT 31
US-10-750-623-35634
; Sequence 35634, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35634
; LENGTH: 1285
; TYPE: DNA
; ORGANISM: Bovine 19866881179359
US-10-750-623-35634

Query Match      64.5%; Score 20; DB 6; Length 1285;
Best Local Similarity 82.1%; Pred. No. 3e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTCGAGCTGCAGCCCACTCTCTCTCC 29
||||| || ||| ||||||| |||||
Db 1202 CTCGAGCTGCAGCCCACTCTCTCC 1229

RESULT 32
US-11-136-527-3719/c
; Sequence 3719, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3719
; LENGTH: 2595
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3719

Query Match      64.5%; Score 20; DB 7; Length 2595;
Best Local Similarity 82.1%; Pred. No. 2.9e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCAGCTGCAGCCCACTCTCTCTCCAG 31
||||| ||||||| ||||||| |||||
Db 341 GCTGCTGCAGCCCACTCTCTCTCCAG 314

RESULT 33
US-11-136-527-1828
; Sequence 1828, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1828
; LENGTH: 4510
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-1828

Query Match          64.5%; Score 20; DB 7; Length 4510;
Best Local Similarity 82.1%; Pred. No. 2.9e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      4 GCAGCTGCAGCCGCCACCTCTCTCTCCAG 31
      ||||| ||||| ||||| ||||| |||||
DB      660 GCAGCAGCAGCCCTCTCTCTCAGCAG 687

RESULT 34
US-11-112-908-43/c
; Sequence 43, Application US/11112908
; Publication No. US20050260659A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Cole
; APPLICANT: Davis, Lisa M.
; TITLE OF INVENTION: Breast Cancer Biomarkers
; FILE REFERENCE: 04-164-US
; CURRENT APPLICATION NUMBER: US/11/112,908
; CURRENT FILING DATE: 2005-04-22
; PRIOR APPLICATION NUMBER: US 60/564,758
; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 159660
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-43

Query Match          64.5%; Score 20; DB 7; Length 159660;
Best Local Similarity 82.1%; Pred. No. 2.8e+02;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      3 TGCAGCTGCAGCCGCCACCTCTCTCTCCA 30
      ||||| ||||| ||||| ||||| |||||
DB      159505 TGCAGGTGGAGCCGCCACCCCTCCCCA 159478

RESULT 35
US-11-121-086-28
; Sequence 28, Application US/1121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138-60000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570

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; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3103
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (639)..(639)
; OTHER INFORMATION: n is a, c, g, or t
US-11-136-527-3103

Query Match 63.9%; Score 19.8; DB 7; Length 1195;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
| | | | | | | | | | | | | | | | | |
Db 390 GCTGCAGTTCCAGTCTCTCTCTCTATCCAG 360

RESULT 41
US-11-124-368A-154/c
; Sequence 154, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 154
; LENGTH: 3320
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-154

Query Match 63.9%; Score 19.8; DB 7; Length 3320;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
| | | | | | | | | | | | | | | | | |
Db 1181 GCTGCAGCTGTGGCCCACTGCAGCCCGG 1151

RESULT 42
US-11-124-368A-156/c
; Sequence 156, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
```

```
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 156
; LENGTH: 3338
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-156

Query Match 63.9%; Score 19.8; DB 7; Length 3338;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
| | | | | | | | | | | | | | | | | |
Db 1199 GCTGCAGCTGTGGCCCACTGCAGCCCGG 1169

RESULT 43
US-10-821-234-805/c
; Sequence 805, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 805
; LENGTH: 3369
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-805

Query Match 63.9%; Score 19.8; DB 6; Length 3369;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 GCTGCAGCTGCAGCCCACTCTCTCTCCAG 31
| | | | | | | | | | | | | | | | | |
Db 1591 GCTGTAGTCTGCTGCTCTCTCTCTCCAG 1561

RESULT 44
US-10-964-313-3/c
; Sequence 3, Application US/10964313
; Publication No. US20050287629A1
; GENERAL INFORMATION:
; APPLICANT: GROZINGER, CHRISTINA M.
; APPLICANT: HASSIG, CHRISTIAN A.
; APPLICANT: SCHREIBER, STUART L.
; TITLE OF INVENTION: CLASS II HUMAN HISTONE DEACETYLASES, AND USES RELATED
; TITLE OF INVENTION: THERETO
; FILE REFERENCE: HUV-037.02
; CURRENT APPLICATION NUMBER: US/10/964,313
; CURRENT FILING DATE: 2004-10-13
; PRIOR APPLICATION NUMBER: 09/800,187
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,802
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn Ver. 3.3
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; SEQ ID NO 3
; LENGTH: 3369
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-964-313-3

Query Match      63.9%; Score 19.8; DB 6; Length 3369;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCTCCAG 31
    |||||
DB 1591 GCTGTAGCTGCTGCTGCTCTGCTTCTCCAG 1561

RESULT 45
US-11-124-368A-155/c
; Sequence 155, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CU001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 155
; LENGTH: 3422
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-155

Query Match      63.9%; Score 19.8; DB 7; Length 3422;
Best Local Similarity 77.4%; Pred. No. 3.4e+02;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GCTGCAGCTGCAGCCGCCACCTCTCTCTCCAG 31
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DB 1283 GCTGCAGCTGTGCGCCGCCACCTGCAGCCCGG 1253

RESULT 46
US-10-821-234-311/c
; Sequence 311, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 311
; LENGTH: 6406
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-311

Query Match      63.9%; Score 19.8; DB 6; Length 6406;

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Db 1459 TGCAGCATCTGCCACACCTCTTCTC 1434

Search completed: January 11, 2006, 05:12:20  
Job time : 659.707 secs

**Qy**            1 GCTGCAGCTGCAGCCCACTCCTTC 26  
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**Db**            347 GCTGCAGCGTGCCCCAGTCTCTCC 322

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RESULT 49
US-10-750-185-38467/c
; Sequence 38467, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DeNise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2003-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38467
; LENGTH: 1811
; TYPE: DNA
; ORGANISM: Bovine
US-10-750-185-38467

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Query Match 63.2%; Score 19.6; DB 6; Length 1811;  
Best Local Similarity 84.6%; Pred. No. 4e+02;  
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

**Qy**            3 TGCAGCTGCAGCCCCACCTCCTTCTC 28  
               |||||   |   |   |   |   |   |  
**Db**          1459 TGCAGCATCTGCCACACCTCCTTCTC 1434

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RESULT 50
US-10-750-623-38467/c
; Sequence 38467, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38467
; LENGTH: 1811
; TYPE: DNA
; ORGANISM: Bovine
US-10-750-623-38467

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Query Match 63.2%; Score 19.6; DB 6; Length 1811;  
Best Local Similarity 84.6%; Pred. No. 4e+02;  
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 TGCAGCTGCAGCCCCACCTCCTTCTC 28



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 10, 2006, 23:14:24 ; Search time 277 Seconds  
(without alignments)  
8637.538 Million cell updates/sec

Title: US-09-869-169C-19  
Perfect score: 1346  
Sequence: 1 ggaagcaactcatgtcca.....gaagaaggcaagtggcgatg 1346  
Scoring table: OLIGO NUC  
Gapop 60.0 , Gapext 60.0

Searched: 1303057 seqs, 888780828 residues  
Word size : 30  
Total number of hits satisfying chosen parameters: 36  
Minimum DB seq length: 0  
Maximum DB seq length: 200000000  
Post-processing: Listing first 1000 summaries

Database : Issued Patents NA:  
1: /cgn2\_6/prodata/1/ina/1 COMB.seq.\*  
2: /cgn2\_6/prodata/1/ina/5 COMB.seq.\*  
3: /cgn2\_6/prodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/prodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/prodata/1/ina/H COMB.seq.\*  
6: /cgn2\_6/prodata/1/ina/PTUS COMB.seq.\*  
7: /cgn2\_6/prodata/1/ina/PP COMB.seq.\*  
8: /cgn2\_6/prodata/1/ina/RE COMB.seq.\*  
9: /cgn2\_6/prodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1346	100.0	103934	3	US-09-949-016-14433
2	1175	87.3	1254	3	US-10-085-612A-4
3	64	4.8	601	3	US-09-949-016-93499
4	58	4.3	35803	3	US-09-949-016-11863
5	58	4.3	35804	3	US-09-949-016-12962
6	34	2.5	34	3	US-10-085-612A-6
7	33	2.5	33	3	US-09-227-718B-34
8	33	2.5	33	3	US-09-840-008A-34
9	33	2.5	34	3	US-10-085-612A-2
10	33	2.5	17731	3	US-09-949-016-16365
11	33	2.5	89584	3	US-09-949-016-17068
12	32	2.4	12157	3	US-09-949-016-13490
13	32	2.4	12157	3	US-09-949-016-13491
14	32	2.4	12157	3	US-09-949-016-15709
15	32	2.4	12157	3	US-09-949-016-15710
16	30	2.2	818128	3	US-09-949-016-14546
17	30	2.2	818128	3	US-09-949-016-14547
18	30	2.2	818128	3	US-09-949-016-14548
19	30	2.2	818128	3	US-09-949-016-14549
20	30	2.2	818128	3	US-09-949-016-14550
21	30	2.2	818128	3	US-09-949-016-14551
22	30	2.2	818128	3	US-09-949-016-14552
23	30	2.2	818128	3	US-09-949-016-14553
24	30	2.2	818128	3	US-09-949-016-14554

C	25	30	2.2	818128	3	US-09-949-016-14555	Sequence 14555, A
C	26	30	2.2	818128	3	US-09-949-016-14556	Sequence 14556, A
C	27	30	2.2	818128	3	US-09-949-016-14557	Sequence 14557, A
C	28	30	2.2	818128	3	US-09-949-016-14558	Sequence 14558, A
C	29	30	2.2	818128	3	US-09-949-016-14559	Sequence 14559, A
C	30	30	2.2	818128	3	US-09-949-016-14560	Sequence 14560, A
C	31	30	2.2	818128	3	US-09-949-016-14561	Sequence 14561, A
C	32	30	2.2	818128	3	US-09-949-016-14562	Sequence 14562, A
C	33	30	2.2	818128	3	US-09-949-016-14563	Sequence 14563, A
C	34	30	2.2	818128	3	US-09-949-016-14564	Sequence 14564, A
C	35	30	2.2	818128	3	US-09-949-016-14565	Sequence 14565, A
C	36	30	2.2	818128	3	US-09-949-016-14566	Sequence 14566, A
C	36	30	2.2	818128	3	US-09-949-016-14567	Sequence 14567, A

ALIGNMENTS

RESULT 1  
US-09-949-016-14433  
; Sequence 14433, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14433  
; LENGTH: 103934  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(103934)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14433

Query Match 100.0%; Score 1346; DB 3; Length 103934; Best Local Similarity 100.0%; Pred. No. 0; Matches 1346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;						
Qy	1	GGAAGCAACTACATGTCATCAACAGATGAATGGTAAAGAGACTTCACTTATGCA	60			
Db	85230	GGAAGCAACTACATGTCATCAACAGATGAATGGTAAAGAGACTTCACTTATGCA	85289			
Qy	61	CAATGGAGTACAATTCCAGCCATGAAAGAGCATGAGATCCTGCTTTTATAAAGCTGG	120			
Db	85290	CAATGGAGTACAATTCCAGCCATGAAAGAGCATGAGATCCTGCTTTTATAAAGCTGG	85349			
Qy	121	CTGGAACTCGAGGTCAATTATGTTAGTAAATAAGCAGGACACAAAGACACATTC	180			
Db	85350	CTGGAACTCGAGGTCAATTATGTTAGTAAATAAGCAGGACACAAAGACACATTC	85409			
Qy	181	ATGTTCTCACTTATTTGTGGATCTACAATCAAAATTAAGCTAACTCTGGGCTTT	240			
Db	85410	ATGTTCTCACTTATTTGTGGATCTACAATCAAAATTAAGCTAACTCTGGGCTTT	85469			
Qy	241	AGTCAATTTTGTACCCCTAAGTACAGGAGCAGCCATTAGATACATGATGATGCTTT	300			
Db	85470	AGTCAATTTTGTACCCCTAAGTACAGGAGCAGCCATTAGATACATGATGATGCTTT	85529			
Qy	301	AATACAGGAATGAATAGGTGAGAGGACAGGGTGGTCTTCTCGATACATAGTA	360			
Db	85530	AATACAGGAATGAATAGGTGAGAGGACAGGGTGGTCTTCTCGATACATAGTA	85589			

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QY 361 TCTTCTCTTGACACATTCAGTACAACTCTCAACAGGTAAAGTCTCTTCATGTATGTACCTT 420
Db 85590 TCTTCTCTTGACACATTCAGTACAACTCTCAACAGGTAAAGTCTCTTCATGTATGTACCTT 85649
QY 421 CTGAGGAATTAAGTGGCAGAACATGCCCTCTCTATTATTTTCTTTGTCAGAACAGACCAAT 480
Db 85650 CTGAGGAATTAAGTGGCAGAACATGCCCTCTCTATTATTTTCTTTGTCAGAACAGACCAAT 85709
QY 481 TGCATTAGTTGGGAAACAGTGTGGCTGGCTGCACTGTAGGCCCAAGCAACCATTAGTCTATTG 540
Db 85710 TGCATTAGTTGGGAAACAGTGTGGCTGGCTGCACTGTAGGCCCAAGCAACCATTAGTCTATTG 85769
QY 541 CTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCACCCAAAGTCAA 600
Db 85770 CTATCACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCACCCAAAGTCAA 85829
QY 601 CTCACCAACATTTCTGGTCACCCACCACATGTGTACAGTACCCCTGCTAGGGTCCAGGGTCA 660
Db 85830 CTCACCAACATTTCTGGTCACCCACCACATGTGTACAGTACCCCTGCTAGGGTCCAGGGTCA 85889
QY 661 TGAAGTAAATATACAGACTGTGCCCTTGAGGAATCTACCTCTGCTAAGGGAAACAGG 720
Db 85890 TGAAGTAAATATACAGACTGTGCCCTTGAGGAATCTACCTCTGCTAAGGGAAACAGG 85949
QY 721 CACAGAACCCACAAAGGGTGTAGAGGAAATAGGACAATAGGACTGTGTAGGGGGAT 780
Db 85950 CACAGAACCCACAAAGGGTGTAGAGGAAATAGGACAATAGGACTGTGTAGGGGGAT 86009
QY 781 AGGAGGCCACCCAGAGGAGGAAATGGTTACATCTGTGTAGGAGGTGGTAAAGAAAGACT 840
Db 86010 AGGAGGCCACCCAGAGGAGGAAATGGTTACATCTGTGTAGGAGGTGGTAAAGAAAGACT 86069
QY 841 TTAATAGAAGGGTCTGTCTGGCTGGGGTTGCAAGGATGTGTAGGATCATCTAGGGGGC 900
Db 86070 TTAATAGAAGGGTCTGTCTGGCTGGGGTTGCAAGGATGTGTAGGATCATCTAGGGGGC 86129
QY 901 ACAAGTACATCCACAGGCAGAGGAAATTCATGGGTAAAGATCTCAGTTGTGGCTTCTGG 960
Db 86130 ACAAGTACATCCACAGGCAGAGGAAATTCATGGGTAAAGATCTCAGTTGTGGCTTCTGG 86189
QY 961 GGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAAACAAGGGCAGGTGAGAGGA 1020
Db 86190 GGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATGGAAACAAGGGCAGGTGAGAGGA 86249
QY 1021 TATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCG 1080
Db 86250 TATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCG 86309
QY 1081 TGGACTCCCTGATATAAACTGATTAAGTTGTTTATGATTTCCCATAGAAATATGAACTCAAA 1140
Db 86310 TGGACTCCCTGATATAAACTGATTAAGTTGTTTATGATTTCCCATAGAAATATGAACTCAAA 86369
QY 1141 GGAGGTAAAGCAAAAGGGTGTGTGGCAATTTCTTTGCTACTGGCTGCAGCTGCAGCCCCACCT 1200
Db 86370 GGAGGTAAAGCAAAAGGGTGTGTGGCAATTTCTTTGCTACTGGCTGCAGCTGCAGCCCCACCT 86429
QY 1201 CCTTCTCAGCACATAAACTTTAGCAGAGCTTGACTTAAGACTGTGTGTGACAGGCGAGGA 1260
Db 86430 CCTTCTCAGCACATAAACTTTAGCAGAGCTTGACTTAAGACTGTGTGTGACAGGCGAGGA 86489
QY 1261 TGCTCCAGGCAGACGCCCAACACACAGCAACAGCTGAAAGTAAAGCTCAGAGGAG 1320
Db 86490 TGCTCCAGGCAGACGCCCAACACACAGCAACAGCTGAAAGTAAAGCTCAGAGGAG 86549
QY 1321 ACAGTTGAAGAGGCAAGTGGCGATG 1346
Db 86550 ACAGTTGAAGAGGCAAGTGGCGATG 86575
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; Patent No. 6929912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-CI
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-085-612A-4

Query Match 87.3%; Score 1175; DB 3; Length 1254;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 AGACATTGCATGTTCTCACATTATTTGTGGGATCTACAAATCAAAACAATTTGAGCTAATGT 231
Db 12 AGACATTGCATGTTCTCACATTATTTGTGGGATCTACAAATCAAAACAATTTGAGCTAATGT 71
QY 232 CTGGTCTTAGTCAATTTTGTACCCTAAAGTACAGGGAGCACAGCATTAGCAATACATGAT 291
Db 72 CTGGTCTTAGTCAATTTTGTACCCTAAAGTACAGGGAGCACAGCATTAGCAATACATGAT 131
QY 292 GAATGCTTTAATACAGGAATGAATAGTGTAGAGGCACAGGGTGGTGGTCTTCTGA 351
Db 132 GAATGCTTTAATACAGGAATGAATAGTGTAGAGGCACAGGGTGGTGGTCTTCTGA 191
QY 352 TACATAGTATCTTCTTTGACACATTCAGTACAACTCTCAAAGTAAAGTCTTCTCATGTA 411
Db 192 TACATAGTATCTTCTTTGACACATTCAGTACAACTCTCAAAGTAAAGTCTTCTCATGTA 251
QY 412 TGTACCTCTGAGGAAATTAAGTGGCAGACATGCTCTATTATTTCTTTGCGAAC 471
Db 252 TGTACCTCTGAGGAAATTAAGTGGCAGACATGCTCTATTATTTCTTTGCGAAC 311
QY 472 AAGACCAATTCATTTAGTTGGGAAAACAGTGTCTGGCTGCATCTGAGCCCCAAGCAACCAT 531
Db 312 AAGACCAATTCATTTAGTTGGGAAAACAGTGTCTGGCTGCATCTGAGCCCCAAGCAACCAT 371
QY 532 AGTCTATTTGATACACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCAC 591
Db 372 AGTCTATTTGATACACACAGACTCAGAGGGGATGACACACAGGGGCCAGCAATCTCAC 431
QY 592 CCAAGTCAACTCCACCAACATTTCTGGTCAACCACCATGTGTACAGTACCTGCTAGGT 651
Db 432 CCAAGTCAACTCCACCAACATTTCTGGTCAACCACCATGTGTACAGTACCTGCTAGGT 491
QY 652 CCAGGGTCAATGAAGTAAATAATACAGACTGTGGCTTGGAGGAACCTCACCTCTGCTAAG 711
Db 492 CCAGGGTCAATGAAGTAAATAATACAGACTGTGGCTTGGAGGAACCTCACCTCTGCTAAG 551
QY 712 GGAACAGGCACAGAAACCCACAAAGGGTGTGTAGAGGAAATAGGACAATAGGACTGTGT 771
Db 552 GGAACAGGCACAGAAACCCACAAAGGGTGTGTAGAGGAAATAGGACAATAGGACTGTGT 611
QY 772 GAGGGGATAGGGGACCCAGAGGAGGAATGTTACATCTGTGTGAGGAGTTGGTAA 831
Db 612 GAGGGGATAGGGGACCCAGAGGAGGAATGTTACATCTGTGTGAGGAGTTGGTAA 671
QY 832 GGAAAGACTTTAATAGAAAGGGGTCTGTCTGGCTGGGCTTGCAAGGATGTGTAGGAGTCAT 891
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Db 672 GGAAGACATTTAATAGAGGGGCTGTCTGGCTGGGCTTCAAGGATGTAGGAGTCAT 731  
QY 892 CTAGGGGGGCAAGTAGTACCTCCAGGAGAGGGAAATTCATGGGTAAAGATCTGCAGTTGT 951  
Db 732 CTAGGGGGGCAAGTAGTACCTCCAGGAGAGGGAAATTCATGGGTAAAGATCTGCAGTTGT 791  
QY 952 GCGTTGTGGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATCGGAACAGGGCAG 1011  
Db 792 GCGTTGTGGGATGGATTTCAAGTATTTCTGGAATGAAGACAGCCATCGGAACAGGGCAG 851  
QY 1012 GTGAGAGGATATTAAAGAGCTTCATGCCAATCGCTCCACTTCAGTTCTGATAAGAACT 1071  
Db 852 GTGAGAGGATATTAAAGAGCTTCATGCCAATCGCTCCACTTCAGTTCTGATAAGAACT 911  
QY 1072 CAGGTTCCGTTGGACTCCCTGATAAACTGATTAAGTTGTTTATGATTCCTCCCATAGAAAT 1131  
Db 912 CAGGTTCCGTTGGACTCCCTGATAAACTGATTAAGTTGTTTATGATTCCTCCCATAGAAAT 971  
QY 1132 GAACTCAAGGAGGTAAAGCAAGGGGTGTGTGCGATTTCTTGTACTGGCTGCAGCTGCA 1191  
Db 972 GAACTCAAGGAGGTAAAGCAAGGGGTGTGTGCGATTTCTTGTACTGGCTGCAGCTGCA 1031  
QY 1192 GCGCCACCTCTCTCCAGCACATAAATTTTCCAGAGCTTGACCTAAGACTGCTGTGCA 1251  
Db 1032 GCGCCACCTCTCTCCAGCACATAAATTTTCCAGAGCTTGACCTAAGACTGCTGTGCA 1091  
QY 1252 GGGCAGGATGCTCCAGGAGAGAGCCAGCAAAACACAGCACACAGCTGAAAGTAAGAC 1311  
Db 1092 GGGCAGGATGCTCCAGGAGAGAGCCAGCAAAACACAGCACACAGCTGAAAGTAAGAC 1151  
QY 1312 TCAGAGGAGACAGTTGAAGAGCAAGTGGCGATG 1346  
Db 1152 TCAGAGGAGACAGTTGAAGAGCAAGTGGCGATG 1186

RESULT 3  
US-09-949-016-93499/c  
; Sequence 93499, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 93499  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-93499

Query Match 4.8%; Score 64; DB 3; Length 601;  
Best Local Similarity 100.0%; Pred. No. 7.7e-22;  
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 200 GGATCTCAAAATCAAAACAAATGAGCTAATGTCTGGGTCTTAGTCAATTTGTACCCCTAA 259  
Db 578 GGATCTCAAAATCAAAACAAATGAGCTAATGTCTGGGTCTTAGTCAATTTGTACCCCTAA 519  
QY 260 GTAC 263  
Db 518 GTAC 515

## RESULT 4

US-09-949-016-11863  
; Sequence 11863, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11863  
; LENGTH: 35803  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-11863

Query Match 4.3%; Score 58; DB 3; Length 35803;  
Best Local Similarity 100.0%; Pred. No. 7.7e-19;  
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 754 AGGACAAATAGGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGGAAATGGTTACAT 811  
Db 1502 AGGACAAATAGGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGGAAATGGTTACAT 1559

## RESULT 5

US-09-949-016-12962  
; Sequence 12962, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12962  
; LENGTH: 35804  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-12962

Query Match 4.3%; Score 58; DB 3; Length 35804;  
Best Local Similarity 100.0%; Pred. No. 7.7e-19;  
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 754 AGGACAAATAGGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGGAAATGGTTACAT 811  
Db 1502 AGGACAAATAGGACTGTGTGAGGGGATAGGAGCCACCCAGAGGAGGAAATGGTTACAT 1559

## RESULT 6

US-10-085-612A-6  
; Sequence 6, Application US/10085612A  
; Patent No. 6929912

```
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; TITLE OF INVENTION: XENOBIOTIC COMPOUND MODULATED EXPRESSION SYSTEMS AND
; FILE REFERENCE: 088802-5211
; CURRENT APPLICATION NUMBER: US/09/840,008A
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 09/227,718
; PRIOR FILING DATE: 1999-01-08
; PRIOR APPLICATION NUMBER: 09/458,366
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 09/005,286
; PRIOR FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-085-612A-6

Query Match      2.5%; Score 34; DB 3; Length 34;
Best Local Similarity 100.0%; Pred. No. 9.2e-07;
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1164 CGATTCCTTTGCTACTGGCTGAGCTGCAGCCCCA 1197
Db 1 CGATTCCTTTGCTACTGGCTGAGCTGCAGCCCCA 34

RESULT 7
US-09-227-718B-34
; Sequence 34, Application US/09227718B
; Patent No. 6809178
; GENERAL INFORMATION:
; APPLICANT: EVANS, RONALD M.
; APPLICANT: BLUMBERG, BRUCE
; TITLE OF INVENTION: NOVEL STEROID-ACTIVATED NUCLEAR RECEPTORS AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 088802-5202
; CURRENT APPLICATION NUMBER: US/09/227,718B
; CURRENT FILING DATE: 1999-01-08
; PRIOR APPLICATION NUMBER: 09/005,286
; PRIOR FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; FEATURE:
; OTHER INFORMATION: oligonucleotide
; OTHER INFORMATION: CYP3A oligonucleotide, CYP3A5, tested for binding
; US-09-227-718B-34

Query Match      2.5%; Score 33; DB 3; Length 33;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1124 TAGAATATGAACCTCAAGGAGGTAAAGCAAGGG 1156
Db 1 TAGAATATGAACCTCAAGGAGGTAAAGCAAGGG 33

RESULT 8
US-09-840-008A-34
; Sequence 34, Application US/09840008A
; Patent No. 6911537
; GENERAL INFORMATION:
; APPLICANT: EVANS, RONALD M.
; TITLE OF INVENTION: XENOBIOTIC COMPOUND MODULATED EXPRESSION SYSTEMS AND
; FILE REFERENCE: 088802-5211
; CURRENT APPLICATION NUMBER: US/09/840,008A
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 09/227,718
; PRIOR FILING DATE: 1999-01-08
; PRIOR APPLICATION NUMBER: 09/458,366
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 09/005,286
; PRIOR FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-840-008A-34

Query Match      2.5%; Score 33; DB 3; Length 33;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1164 CGATTCCTTTGCTACTGGCTGAGCTGCAGCCCC 1196
Db 1 CGATTCCTTTGCTACTGGCTGAGCTGCAGCCCC 33

RESULT 9
US-10-085-612A-2
; Sequence 2, Application US/10085612A
; Patent No. 6925912
; GENERAL INFORMATION:
; APPLICANT: Guida, Marco
; APPLICANT: Hall, Jeff
; APPLICANT: Petros, William
; APPLICANT: Colvin, Oliver
; APPLICANT: Vredenburgh, James
; APPLICANT: Marks, Jeffrey
; TITLE OF INVENTION: METHODS FOR EVALUATING THE ABILITY TO METABOLIZE PHARMACEUTICALS
; FILE REFERENCE: DNA-5-C1
; CURRENT APPLICATION NUMBER: US/10/085,612A
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/144,367
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/271,630
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 34
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-085-612A-2

Query Match      2.5%; Score 33; DB 3; Length 34;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1164 CGATTCCTTTGCTACTGGCTGAGCTGCAGCCCC 1196
Db 1 CGATTCCTTTGCTACTGGCTGAGCTGCAGCCCC 33

RESULT 10
US-09-949-016-16365/c
; Sequence 16365, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
```

FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 16365  
; LENGTH: 17731  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-16365

Query Match 2.5%; Score 33; DB 3; Length 17731;  
Best Local Similarity 100.0%; Pred. No. 2.8e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 1104 ACATTGCATGTTCTCACTTATTGTGGGATCTA 1072  
|||||

## RESULT 11

US-09-949-016-17068/c  
; Sequence 17068, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 17068  
; LENGTH: 89584  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-17068

Query Match 2.5%; Score 33; DB 3; Length 89584;  
Best Local Similarity 100.0%; Pred. No. 2.7e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 23255 ACATTGCATGTTCTCACTTATTGTGGGATCTA 23223  
|||||

## RESULT 12

US-09-949-016-13490/c  
; Sequence 13490, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20

FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13490  
; LENGTH: 12157  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-13490

Query Match 2.4%; Score 32; DB 3; Length 12157;  
Best Local Similarity 100.0%; Pred. No. 8.9e-06;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 175 CATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 5229 CATTGCATGTTCTCACTTATTGTGGGATCTA 5198  
|||||

## RESULT 13

US-09-949-016-13491/c  
; Sequence 13491, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13491  
; LENGTH: 12157  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-13491

Query Match 2.4%; Score 32; DB 3; Length 12157;  
Best Local Similarity 100.0%; Pred. No. 8.9e-06;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 175 CATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 5229 CATTGCATGTTCTCACTTATTGTGGGATCTA 5198  
|||||

## RESULT 14

US-09-949-016-15709/c  
; Sequence 15709, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15709
; LENGTH: 12157
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-15709

Query Match          2.4%; Score 32; DB 3; Length 12157;
Best Local Similarity 100.0%; Pred. No. 8.9e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCATTATTGTGGGATCTA 206
      |||||||
Db 5229 CATTGCATGTTCTCATTATTGTGGGATCTA 5198

RESULT 15
US-09-949-016-15710/c
; Sequence 15710, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15710
; LENGTH: 12157
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-15710

Query Match          2.4%; Score 32; DB 3; Length 12157;
Best Local Similarity 100.0%; Pred. No. 8.9e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 175 CATTGCATGTTCTCATTATTGTGGGATCTA 206
      |||||||
Db 5229 CATTGCATGTTCTCATTATTGTGGGATCTA 5198

RESULT 16
US-09-949-016-14546/c
; Sequence 14546, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14546
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human

Query Match          2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCATTATTGTGGGAT 203
      |||||||
Db 195959 ACATTGCATGTTCTCATTATTGTGGGAT 195930

RESULT 17
US-09-949-016-14547/c
; Sequence 14547, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14547
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(818128)
; OTHER INFORMATION: n = A,T,C or G
; US-09-949-016-14547

Query Match          2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCATTATTGTGGGAT 203
      |||||||
Db 195959 ACATTGCATGTTCTCATTATTGTGGGAT 195930

RESULT 18
US-09-949-016-14548/c
; Sequence 14548, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14548
```

```
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14548

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 19
US-09-949-016-14549/c
; Sequence 14549, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14549
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14549

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 20
US-09-949-016-14550/c
; Sequence 14550, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14550
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14550/c

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 21
US-09-949-016-14551/c
; Sequence 14551, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14551
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14551

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

RESULT 22
US-09-949-016-14552/c
; Sequence 14552, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14552
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14552/c

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930
```

; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14552  
; LENGTH: 818128  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(818128)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14552

Query Match 2.2%; Score 30; DB 3; Length 818128;  
Best Local Similarity 100.0%; Pred. No. 8.6e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203  
|||||  
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

## RESULT 23

US-09-949-016-14553/c  
; Sequence 14553, Application US/09949016  
; Patent No. 6812339

; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14553  
; LENGTH: 818128  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(818128)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14553

Query Match 2.2%; Score 30; DB 3; Length 818128;  
Best Local Similarity 100.0%; Pred. No. 8.6e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203  
|||||  
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

## RESULT 24

US-09-949-016-14554/c  
; Sequence 14554, Application US/09949016  
; Patent No. 6812339

; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14554  
; LENGTH: 818128  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(818128)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14554

Query Match 2.2%; Score 30; DB 3; Length 818128;  
Best Local Similarity 100.0%; Pred. No. 8.6e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203  
|||||  
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

## RESULT 25

US-09-949-016-14555/c  
; Sequence 14555, Application US/09949016  
; Patent No. 6812339

; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14555  
; LENGTH: 818128  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(818128)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14555

Query Match 2.2%; Score 30; DB 3; Length 818128;  
Best Local Similarity 100.0%; Pred. No. 8.6e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203  
|||||  
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

## RESULT 26

US-09-949-016-14556/c  
; Sequence 14556, Application US/09949016  
; Patent No. 6812339

; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14



; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14556  
; LENGTH: 818128  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(818128)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14556

Query Match 2.2%; Score 30; DB 3; Length 818128;  
Best Local Similarity 100.0%; Pred. No. 8.6e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203  
|||||  
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

## RESULT 27

US-09-949-016-14557/c  
; Sequence 14557, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14557  
; LENGTH: 818128  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(818128)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14557

Query Match 2.2%; Score 30; DB 3; Length 818128;  
Best Local Similarity 100.0%; Pred. No. 8.6e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203  
|||||  
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

## RESULT 28

US-09-949-016-14558/c  
; Sequence 14558, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14558  
; LENGTH: 818128  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(818128)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14558

Query Match 2.2%; Score 30; DB 3; Length 818128;  
Best Local Similarity 100.0%; Pred. No. 8.6e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203  
|||||  
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

## RESULT 29

US-09-949-016-14559/c  
; Sequence 14559, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14559  
; LENGTH: 818128  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(818128)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14559

Query Match 2.2%; Score 30; DB 3; Length 818128;  
Best Local Similarity 100.0%; Pred. No. 8.6e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203  
|||||  
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930

## RESULT 30

US-09-949-016-14560/c

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; Sequence 14560, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14560
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14560

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTATTTCGGGAT 203
Db      195959 ACATTGCATGTTCTCACTATTTCGGGAT 195930

RESULT 31
US-09-949-016-14561/c
; Sequence 14561, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14561
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14561

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTATTTCGGGAT 203
Db      195959 ACATTGCATGTTCTCACTATTTCGGGAT 195930

RESULT 32
US-09-949-016-14562/c
; Sequence 14562, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14562
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14562

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTATTTCGGGAT 203
Db      195959 ACATTGCATGTTCTCACTATTTCGGGAT 195930

RESULT 33
US-09-949-016-14564/c
; Sequence 14564, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14564
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14564

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTATTTCGGGAT 203
Db      195959 ACATTGCATGTTCTCACTATTTCGGGAT 195930

Query Match      2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      174 ACATTGCATGTTCTCACTATTTCGGGAT 203
Db      195959 ACATTGCATGTTCTCACTATTTCGGGAT 195930
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Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930
|||||
RESULT 34
US-09-949-016-14565/c
; Sequence 14565, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14565
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14565

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930
|||||

RESULT 35
US-09-949-016-14566/c
; Sequence 14566, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14566
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14566

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930
|||||

RESULT 36
US-09-949-016-14567/c
; Sequence 14567, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14567
; LENGTH: 818128
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(818128)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14567

Query Match 2.2%; Score 30; DB 3; Length 818128;
Best Local Similarity 100.0%; Pred. No. 8.6e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 174 ACATTGCATGTTCTCACTTATTGTGGGAT 203
|||||
Db 195959 ACATTGCATGTTCTCACTTATTGTGGGAT 195930
|||||

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Job time : 309 secs
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:39:21 ; Search time 1246 Seconds  
(without alignments)  
8933.052 Million cell updates/sec

Title: US-09-869-169C-19  
Perfect score: 1346  
Sequence: 1 ggaagcaacctacatgtcca.....gaagaaggcaagtgcgatg 1346

Scoring table: OLIGO NUC  
Gapop\_60.0, Gapext 60.0

Searched: 9793542 seqs, 4134689005 residues

Word size : 30

Total number of hits satisfying chosen parameters: 43

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 1000 summaries

Database : Published Applications\_NA\_Main:\*

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- 2: /cgn2\_6/prodata/1/pubpna/US08\_PUBCOMB.seq:\*
- 3: /cgn2\_6/prodata/1/pubpna/US09A\_PUBCOMB.seq:\*
- 4: /cgn2\_6/prodata/1/pubpna/US09B\_PUBCOMB.seq:\*
- 5: /cgn2\_6/prodata/1/pubpna/US10A\_PUBCOMB.seq:\*
- 6: /cgn2\_6/prodata/1/pubpna/US10B\_PUBCOMB.seq:\*
- 7: /cgn2\_6/prodata/1/pubpna/US10C\_PUBCOMB.seq:\*
- 8: /cgn2\_6/prodata/1/pubpna/US10D\_PUBCOMB.seq:\*
- 9: /cgn2\_6/prodata/1/pubpna/US10E\_PUBCOMB.seq:\*
- 10: /cgn2\_6/prodata/1/pubpna/US11\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1175	87.3	1254	5	US-10-085-612-4
2	944	70.1	2214	4	US-09-925-065A-675137
3	213	15.8	611	4	US-09-925-065A-839692
4	64	4.8	96960	8	US-10-484-577-662
5	58	4.3	177531	8	US-10-484-577-660
6	45	3.3	47	8	US-10-865-478-304
7	36	2.7	543	4	US-09-925-065A-451420
8	36	2.7	543	4	US-09-925-065A-451421
9	36	2.7	543	4	US-09-925-065A-451422
10	36	2.7	543	4	US-09-925-065A-451423
11	36	2.7	666	4	US-09-925-065A-798147
12	34	2.5	34	5	US-10-085-612-6
13	33	2.5	33	3	US-09-927-718-34
14	33	2.5	33	3	US-09-840-008-34
15	33	2.5	33	6	US-10-081-555C-34
16	33	2.5	33	8	US-10-482-555-26
17	33	2.5	34	5	US-10-085-612-2
18	33	2.5	416	4	US-09-925-065A-355066
19	33	2.5	547	4	US-09-925-065A-320830
20	33	2.5	547	4	US-09-925-065A-728706
21	33	2.5	572	4	US-09-925-065A-788756
22	33	2.5	575	4	US-09-925-065A-789136
23	33	2.5	581	4	US-09-925-065A-560023

ALIGNMENTS

RESULT 1

US-10-085-612-4  
; Sequence 4, Application US/10085612  
; Publication No. US20030096251A1  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Vredenburgh, James  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals  
; FILE REFERENCE: 4389-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 1254  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612-4

Query Match 87.3%; Score 1175; DB 5; Length 1254;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	172	AGACATTGCATGTTCTCCTCACTTTATTTGTGGGATCTACAAATCAAAACAATTGAGCTAATGT	231
DB	12	AGACATTGCATGTTCTCCTCACTTTATTTGTGGGATCTACAAATCAAAACAATTGAGCTAATGT	71
QY	232	CTGGGCTTTAGTCAATTTTGTACCCCTAAGTACAGGGAGCACGCCATTAGAATACATGAT	291
DB	72	CTGGGCTTTAGTCAATTTTGTACCCCTAAGTACAGGGAGCACGCCATTAGAATACATGAT	131
QY	292	GAATGCTTTAATACAGGAATGAATAGGTGAGAGGCACAGGGTGGTTCCTTCGTA	351
DB	132	GAATGCTTTAATACAGGAATGAATAGGTGAGAGGCACAGGGTGGTTCCTTCGTA	191
QY	352	TACATAGTATCTTCCTTGCACACATTTCAGTACAACTCTCAACAGGTAACTCTTCATGTA	411
DB	192	TACATAGTATCTTCCTTGCACACATTTCAGTACAACTCTCAACAGGTAACTCTTCATGTA	251

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Qy 412 TGTTACCTTCTGAGGAATTAAGTGGCAGAAATGCTCTTCTATTATTTTCTTTGCGAAC 471
Db 252 TGTACCTTCTGAGGAATTAAGTGGCAGAAATGCTCTTCTATTATTTTCTTTGCGAAC 311
Qy 472 AAGACCAATTGCAATTAGTTGGGAAACAGTGTGGTGTGATCTGAGCCCCAAGCAACATT 531
Db 312 AAGACCAATTGCAATTAGTTGGGAAACAGTGTGGTGTGATCTGAGCCCCAAGCAACATT 371
Qy 532 AGTCTATTGCTATCACACAGACTCAGAGGGGTGACACACAGGGGCCAGCAATCTCAC 591
Db 372 AGTCTATTGCTATCACACAGACTCAGAGGGGTGACACACAGGGGCCAGCAATCTCAC 431
Qy 592 CCAAGTCAATCCACCAACAACTTTCTGTCAACCAATGTGTACAGTACCTGCTAGGGT 651
Db 432 CCAAGTCAATCCACCAACAACTTTCTGTCAACCAATGTGTACAGTACCTGCTAGGGT 491
Qy 652 CCAGGGTCATGAAAGTAAATACACAGACTGTGTGCTTCCCTTGAGGAATCTCACCTCTGCTAAG 711
Db 492 CCAGGGTCATGAAAGTAAATACACAGACTGTGTGCTTCCCTTGAGGAATCTCACCTCTGCTAAG 551
Qy 712 GGAACAGGCACAGAACCCACAGGGGTGTGAGAGGAATAGGACAAATAGGACTGTGT 771
Db 552 GGAACAGGCACAGAACCCACAGGGGTGTGAGAGGAATAGGACAAATAGGACTGTGT 611
Qy 772 GAGGGGATAGGAGGCCACCCAGAGGAGGAATGGTTACATCTGTGTGAGGAGGTGGTAA 831
Db 612 GAGGGGATAGGAGGCCACCCAGAGGAGGAATGGTTACATCTGTGTGAGGAGGTGGTAA 671
Qy 832 GGAAGACTTTAATAGAGGGGTCTGTCTGGCTGGGTTCGAAAGGATGTGTAGAGTCAT 891
Db 672 GGAAGACTTTAATAGAGGGGTCTGTCTGGCTGGGTTCGAAAGGATGTGTAGAGTCAT 731
Qy 892 CTAGGGGGCACAAGTACACTCCAGGCAGAGGGAATTCATGGGTAAAGATCTGCAAGTGT 951
Db 732 CTAGGGGGCACAAGTACACTCCAGGCAGAGGGAATTCATGGGTAAAGATCTGCAAGTGT 791
Qy 952 GGCTTTGGGGATGCAATTTCAAGTATTCTGGAATGAAAGCAGCCATGGAACCAAGGCAG 1011
Db 792 GGCTTTGGGGATGCAATTTCAAGTATTCTGGAATGAAAGCAGCCATGGAACCAAGGCAG 851
Qy 1012 GTGAGAGGATATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACT 1071
Db 852 GTGAGAGGATATTTAAGAGGCTTCATGCCAATGGCTCCACTTCAGTTTCTGATAAGAACT 911
Qy 1072 CAGGTTCCGTGGACTCCCTGATAAATGATTAAGTTGTTTATGATTTCCCATAGATAT 1131
Db 912 CAGGTTCCGTGGACTCCCTGATAAATGATTAAGTTGTTTATGATTTCCCATAGATAT 971
Qy 1132 GNACTCAAGAGGATTAAGCAAGGGGTGTGTGCAATCTTTGTACTGGCTGCAAGCTGCA 1191
Db 972 GNACTCAAGAGGATTAAGCAAGGGGTGTGTGCAATCTTTGTACTGGCTGCAAGCTGCA 1031
Qy 1192 GCCCCACCTCCTTCTCCAGCACAATAAATTTACAGAGCTTGACCTAAGACTGCTGTGCA 1251
Db 1032 GCCCCACCTCCTTCTCCAGCACAATAAATTTACAGAGCTTGACCTAAGACTGCTGTGCA 1091
Qy 1252 GGGCAGGGATGCTCCAGGCAGACGCCAGCAACCAACAGCACAACAGCTGAAGTAAGAC 1311
Db 1092 GGGCAGGGATGCTCCAGGCAGACGCCAGCAACCAACAGCACAACAGCTGAAGTAAGAC 1151
Qy 1312 TCAGAGGAGCAGTTGAAGAGGCAAGTGGCGATG 1346
Db 1152 TCAGAGGAGCAGTTGAAGAGGCAAGTGGCGATG 1186
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RESULT 2  
US-09-925-065A-675137  
; Sequence 675137, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome

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FILE REFERENCE: 108827.135  
CURRENT APPLICATION NUMBER: US/09/925, 065A  
CURRENT FILING DATE: 2001-08-08  
PRIOR APPLICATION NUMBER: US 60/243,096  
PRIOR FILING DATE: 2000-10-24  
PRIOR APPLICATION NUMBER: US 60/252,147  
PRIOR FILING DATE: 2000-11-20  
PRIOR APPLICATION NUMBER: US 60/250,092  
PRIOR FILING DATE: 2000-11-30  
PRIOR APPLICATION NUMBER: US 60/261,766  
PRIOR FILING DATE: 2001-01-16  
PRIOR APPLICATION NUMBER: US 60/289,846  
NUMBER OF SEQ ID NOS: 957086  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO 675137  
LENGTH: 2214  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-925-065A-675137
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Query Match 70.1%; Score 944; DB 4; Length 2214;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1144; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
Qy 199 GGGATCTACAAATCAAAACAAATTTGAGCTAATGTCTGGTCTTAGTCAATTTTGTACCCCTA 258  
Db 1 GGGATCTACAAATCAAAACAAATTTGAGCTAATGTCTGGTCTTAGTCAATTTTGTACCCCTA 60  
Qy 259 AGTACAGGGAGCAGCCATTAGAAATACATGATGAATGCTTTTAATACAGGAATGAATAGG 318  
Db 61 AGTACAGGGAGCAGCCATTAGAAATACATGATGAATGCTTTTAATACAGGAATGAATAGG 120  
Qy 319 TGAGAGGCACAGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 378  
Db 121 TGAGAGGCACAGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 180  
Qy 379 GTACAACTCTCAACAGGTAAAGTCTCTTCAATGATGTTACCTCTGAGGAATTAAGTGGCA 438  
Db 181 GTACAACTCTCAACAGGTAAAGTCTCTTCAATGATGTTACCTCTGAGGAATTAAGTGGCA 240  
Qy 439 GAACATGCTCTTATTTATTTATTTTCTTTGAGAAACCAAGTTCATTTAGTGGGAAACA 498  
Db 241 GAACATGCTCTTATTTATTTATTTTCTTTGAGAAACCAAGTTCATTTAGTGGGAAACA 300  
Qy 499 GTGCTGGCTGCATCTGAGCCCCCAAGCAACCATTAAGTCTATTGCTATTACACACAGACTCAG 558  
Db 301 GTGCTGGCTGCATCTGAGCCCCCAAGCAACCATTAAGTCTATTGCTATTACACACAGACTCAG 360  
Qy 559 AGGGGATGACACACAGGGGCCAGCAATCTCACCAAGTCAACTCCACCAACATTTCTGG 618  
Db 361 AGGGGATGACACACAGGGGCCAGCAATCTCACCAAGTCAACTCCACCAACATTTCTGG 420  
Qy 619 TCACCCACCAATGTGTACAGTACCTGCTAGGGTCCAGGGTCCAGGGTCCAGGGTCCAGGGTCCAGGG 678  
Db 421 TCACCCACCAATGTGTACAGTACCTGCTAGGGTCCAGGGTCCAGGGTCCAGGGTCCAGGGTCCAGGG 480  
Qy 679 GACTGTGCTTGGAGGAATCTCACTCTGCTTAAGGGAAACAGGCACAGAAACCCCAAGGG 738  
Db 481 GACTGTGCTTGGAGGAATCTCACTCTGCTTAAGGGAAACAGGCACAGAAACCCCAAGGG 540  
Qy 739 TGGTGTAGAGGAAATAGGCAATAGGACTGTGTGAGGGGATAGGAGGCAACCCAGAGGAG 798  
Db 541 TGGTGTAGAGGAAATAGGCAATAGGACTGTGTGAGGGGATAGGAGGCAACCCAGAGGAG 600  
Qy 799 GAAATGTTTACATCTGTGTGAGGAGGTGGTAAAGAAAGACTTTTAATAGAGGGGTCTGT 858  
Db 601 GAAATGTTTACATCTGTGTGAGGAGGTGGTAAAGAAAGACTTTTAATAGAGGGGTCTGT 660  
Qy 859 CTGGCTGGGCTTGAAGGATGTGTAGGAGTCACTAGGGGGCACAAGTACACTCCAGGCA 918  
Db 661 CTGGCTGGGCTTGAAGGATGTGTAGGAGTCACTAGGGGGCACAAGTACACTCCAGGCA 720
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QY 919 GAGGGAATTGCATGGTAAAGATCTGCAGTTGTGGCTTGTGGGATGGATTTCAAGTATT 978  
Db 721 GAGGGAATTGCATGGTAAAGATCTGCAGTTGTGGCTTGTGGGATGGATTTCAAGTATT 780  
QY 979 CTGGAATGAAGACAGACGATCGAAACAAAGGCGAGGTGAGAGGATATTTAAGAGGCTTCATG 1038  
Db 781 CTGGAATGAAGACAGACGATCGAAACAAAGGCGAGGTGAGAGGATATTTAAGAGGCTTCATG 840  
QY 1039 CCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGACTCCCTGATAAAAC 1098  
Db 841 CCAATGGCTCCACTTCAGTTTCTGATAAGAACTCAGGTTCCGTGGACTCCCTGATAAAAC 900  
QY 1099 TGATTAAGTTGTTATGATCCCATAGATATGAATCAACTCAAGGAGGTGAAGCAAGGGGT 1158  
Db 901 TGATTAAGTTGTTATGATCCCATAGATATGAATCAACTCAAGGAGGTGAAGCAAGGGGT 960  
QY 1159 GTGTGGATTTCTTGTACTGCTGAGCTGCAGCCGCCCTCTCTCCAGCACATAAA 1218  
Db 961 GTGTGGATTTCTTGTACTGCTGAGCTGCAGCCGCCCTCTCTCCAGCACATAAA 1020  
QY 1219 CATTTCCAGCAGCTTGACCTAAGACTGCTGTGCAGGGCAGGGATGCTCCAGGCAGACAGCC 1278  
Db 1021 CATTTCCAGCAGCTTGACCTAAGACTGCTGTGCAGGGCAGGGATGCTCCAGGCAGACAGCC 1080  
QY 1279 CAGCAAAACACACACACAGCTGAAAGTAAGTCAAGAGAGACAGTTGAAGAGGCAAG 1338  
Db 1081 CAGCAAAACACACACACAGCTGAAAGTAAGTCAAGAGAGACAGTTGAAGAGGCAAG 1140  
QY 1339 TGCGCGATG 1346  
Db 1141 TGCGCGATG 1148

RESULT 3  
US-09-925-065A-839692  
; Sequence 839692, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925, 065A  
; PRIOR FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 839692  
; LENGTH: 611  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-839692

Query Match 15.8%; Score 213; DB 4; Length 611;  
Best Local Similarity 99.6%; Pred. No. 1.7e-104;  
Matches 263; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1083 GACTCCCTGATAAACTGATTAAGTTGTTATGATTCCTCCATAGATATGAATCAAGG 1142  
Db 1 GACTCCCTGATAAACTGATTAAGTTGTTATGATTCCTCCATAGATATGAATCAAGG 60  
QY 1143 AGGTAAAGCAAGGGTGTGTGCGATTTCTTTGCTACTGGCTGCAGCTGCAGCCCACTCC 1202  
Db 61 AGGTAAAGCAAGGGTGTGTGCGATTTCTTTGCTACTGGCTGCAGCTGCAGCCCACTCC 120

QY 1203 TTCTCCAGCACATAAACATTTCCAGCAGCTTGACCTAAAGACTCTGTGCAGGCGAGGATG 1262  
Db 121 TTCTCCAGCACATAAACATTTCCAGCAGCTTGACCTAAAGACTCTGTGCAGGCGAGGATG 180  
QY 1263 CTCCAGGCGAGACAGCCCGCAACACACAGCACACAGCTGAAAAGTAAGACTCAGAGGAGAC 1322  
Db 181 CTCCAGGCGAGACAGCCCGCAACACACAGCACACAGCTGAAAAGTAAGACTCAGAGGAGAC 240  
QY 1323 AGTTGAAGAAAGCAAGTGGCGATG 1346  
Db 241 AGTTGAAGAAAGCAAGTGGCGATG 264

RESULT 4  
US-10-484-577-662  
; Sequence 662, Application US/10484577  
; Publication No. US20050032724A1  
; GENERAL INFORMATION:  
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1  
; FILE REFERENCE: F2285PCT-1  
; CURRENT APPLICATION NUMBER: US/10/484,577  
; CURRENT FILING DATE: 2004-01-22  
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
; PRIOR FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
; PRIOR FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: EP 02011710.7  
; PRIOR FILING DATE: 2002-05-24  
; NUMBER OF SEQ ID NOS: 683  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 662  
; LENGTH: 96960  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-484-577-662

Query Match 4.8%; Score 64; DB 8; Length 96960;  
Best Local Similarity 100.0%; Pred. No. 2.3e-23;  
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 200 GGATCTACAAATCAAAACAAATTCAGCTAATGCTGCTGCTTGTAGTCAATTTGTACCTAA 259  
Db 92351 GGATCTACAAATCAAAACAAATTCAGCTAATGCTGCTGCTTGTAGTCAATTTGTACCTAA 92410  
QY 260 GTAC 263  
Db 92411 GTAC 92414

RESULT 5  
US-10-484-577-660  
; Sequence 660, Application US/10484577  
; Publication No. US20050032724A1  
; GENERAL INFORMATION:  
; APPLICANT: EPIDAUROS Biotechnologie Aktiengesellschaft  
; TITLE OF INVENTION: Means and methods for improved treatment of cancer based on UGT1A1  
; FILE REFERENCE: F2285PCT-1  
; CURRENT APPLICATION NUMBER: US/10/484,577  
; CURRENT FILING DATE: 2004-01-22  
; PRIOR APPLICATION NUMBER: PCT/EP 02/08220  
; PRIOR FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: EP 01 11 7608.8  
; PRIOR FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: EP 02011710.7  
; PRIOR FILING DATE: 2002-05-24  
; NUMBER OF SEQ ID NOS: 683  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 660  
; LENGTH: 177531  
; TYPE: DNA  
; ORGANISM: Homo sapiens

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US-10-484-577-660
Query Match      4.3%; Score 58; DB 8; Length 177531;
Best Local Similarity 100.0%; Pred. No. 4.4e-20;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 754 AGGACATAGGACTGTGTGAGGGGATAGGAGGCCAGGAGGAAATGGTTACAT 811
      |||||||
Db 15327 AGGACATAGGACTGTGTGAGGGGATAGGAGGCCAGGAGGAAATGGTTACAT 15384

RESULT 6
US-10-865-478-304
; Sequence 304, Application US/10865478
; Publication No. US20040235041A1
; GENERAL INFORMATION:
; APPLICANT: Shimkets, Richard A.
; TITLE OF INVENTION: cSingle Nucleotide Polymorphisms for Known Genes
; FILE REFERENCE: 15966-534-CIP1
; CURRENT APPLICATION NUMBER: US/10/865,478
; CURRENT FILING DATE: 2004-06-10
; PRIOR APPLICATION NUMBER: 60/109,024
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: 09/443,199
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 09/442,129
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 09/442,849
; PRIOR FILING DATE: 1999-11-17
; NUMBER OF SEQ ID NOS: 880
; SOFTWARE: Curagen Patent Formatter Version 0.9
; SEQ ID NO 304
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: (22)...(0)
; OTHER INFORMATION: single nucleotide polymorphism
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Accession number cg44014837
US-10-865-478-304

Query Match      3.3%; Score 45; DB 8; Length 47;
Best Local Similarity 100.0%; Pred. No. 3.8e-13;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1241 ACTGCTGTCAGGCGAGGATGCTCCAGGCGAGAGCCAGCAAA 1285
      |||||||
Db 2 ACTGCTGTCAGGCGAGGATGCTCCAGGCGAGAGCCAGCAAA 46

RESULT 7
US-09-925-065A-451420
; Sequence 451420, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766

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; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 451420
; LENGTH: 543
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-451420

Query Match      2.7%; Score 36; DB 4; Length 543;
Best Local Similarity 100.0%; Pred. No. 3.3e-08;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 171 CAGACATTGCATGTTCTCACTTATTTGTGGGATCTA 206
      |||||||
Db 37 CAGACATTGCATGTTCTCACTTATTTGTGGGATCTA 72

RESULT 8
US-09-925-065A-451421
; Sequence 451421, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 451421
; LENGTH: 543
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-451421

Query Match      2.7%; Score 36; DB 4; Length 543;
Best Local Similarity 100.0%; Pred. No. 3.3e-08;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 171 CAGACATTGCATGTTCTCACTTATTTGTGGGATCTA 206
      |||||||
Db 37 CAGACATTGCATGTTCTCACTTATTTGTGGGATCTA 72

RESULT 9
US-09-925-065A-451422
; Sequence 451422, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20

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; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 451422  
; LENGTH: 543  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-451422

Query Match 2.7%; Score 36; DB 4; Length 543;  
Best Local Similarity 100.0%; Pred. No. 3.3e-08;  
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 37 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 72

## RESULT 10

US-09-925-065A-451423  
; Sequence 451423, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:

; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; PRIOR FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 451423  
; LENGTH: 543  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-451423

Query Match 2.7%; Score 36; DB 4; Length 543;  
Best Local Similarity 100.0%; Pred. No. 3.3e-08;  
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 37 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 72

## RESULT 11

US-09-925-065A-798147  
; Sequence 798147, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:

; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925,065A  
; PRIOR FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096

; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 798147  
; LENGTH: 666  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-798147

Query Match 2.7%; Score 36; DB 4; Length 666;  
Best Local Similarity 100.0%; Pred. No. 3.3e-08;  
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 171 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 130 CAGACATTGCATGTTCTCACTTATTGTGGGATCTA 165

## RESULT 12

US-10-085-612-6  
; Sequence 6, Application US/10085612  
; Publication No. US20030096251A1  
; GENERAL INFORMATION:

; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Vredenburgh, James  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals  
; FILE REFERENCE: 4389-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 6  
; LENGTH: 34  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-085-612-6

Query Match 2.5%; Score 34; DB 5; Length 34;  
Best Local Similarity 100.0%; Pred. No. 3.7e-07;  
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1164 CGATTCTTTGCTACTGGCTGCAGCTGCAGCCCCA 1197  
|||||  
Db 1 CGATTCTTTGCTACTGGCTGCAGCTGCAGCCCCA 34

## RESULT 13

US-09-227-718-34  
; Sequence 34, Application US/09227718A  
; Publication No. US20030044888A1  
; GENERAL INFORMATION:

; APPLICANT: Evans, Ronald M.  
; APPLICANT: Blumberg, Bruce  
; TITLE OF INVENTION: NOVEL STEROID-ACTIVATED NUCLEAR  
; TITLE OF INVENTION: RECEPTORS AND USES THEREFOR  
; FILE REFERENCE: SALK2270-1

; CURRENT APPLICATION NUMBER: US/09/227,718A  
; CURRENT FILING DATE: 1999-01-08  
; EARLIER APPLICATION NUMBER: US 09/005,286  
; EARLIER FILING DATE: 1998-01-09  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 34  
; LENGTH: 33  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CYP3A oligonucleotide, CYP3A5, tested for binding  
US-09-227-718-34

Query Match 2.5%; Score 33; DB 3; Length 33;  
Best Local Similarity 100.0%; Pred. No. 1.3e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1124 TAGAATATGAACCTCAAAGGAGGTAAGCAAAAGGG 1156  
|||||  
Db 1 TAGAATATGAACCTCAAAGGAGGTAAGCAAAAGGG 33

RESULT 14  
US-09-840-008-34  
; Sequence 34, Application US/09840008  
; Publication No. US20030104519A1  
; GENERAL INFORMATION:  
; APPLICANT: EVANS, RONALD M.  
; TITLE OF INVENTION: XENOBOTIC COMPOUND MODULATED EXPRESSION SYSTEMS AND  
; TITLE OF INVENTION: USES THEREFOR  
; FILE REFERENCE: SALK2270-4  
; CURRENT APPLICATION NUMBER: US/09/840,008  
; CURRENT FILING DATE: 2001-04-20  
; PRIOR APPLICATION NUMBER: 09/458,366  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: 09/005,286  
; PRIOR FILING DATE: 1998-01-09  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 34  
; LENGTH: 33  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-840-008-34

Query Match 2.5%; Score 33; DB 3; Length 33;  
Best Local Similarity 100.0%; Pred. No. 1.3e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1124 TAGAATATGAACCTCAAAGGAGGTAAGCAAAAGGG 1156  
|||||  
Db 1 TAGAATATGAACCTCAAAGGAGGTAAGCAAAAGGG 33

RESULT 15  
US-10-081-555C-34  
; Sequence 34, Application US/10081555C  
; Publication No. US20030223993A1  
; GENERAL INFORMATION:  
; APPLICANT: EVANS, RONALD M.  
; TITLE OF INVENTION: NOVEL STEROID-ACTIVATED NUCLEAR RECEPTORS AND USES THEREFOR  
; FILE REFERENCE: SALK2270-5 (088802-5212)  
; CURRENT APPLICATION NUMBER: US/10/081,555C  
; CURRENT FILING DATE: 2002-02-20  
; PRIOR APPLICATION NUMBER: 09/458,366  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: 09/227,718  
; PRIOR FILING DATE: 1999-01-08  
; PRIOR APPLICATION NUMBER: 09/005,286  
; PRIOR FILING DATE: 1998-01-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 34  
; LENGTH: 33  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-081-555C-34

Query Match 2.5%; Score 33; DB 6; Length 33;  
Best Local Similarity 100.0%; Pred. No. 1.3e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1124 TAGAATATGAACCTCAAAGGAGGTAAGCAAAAGGG 1156  
|||||  
Db 1 TAGAATATGAACCTCAAAGGAGGTAAGCAAAAGGG 33

RESULT 16  
US-10-482-555-26  
; Sequence 26, Application US/10482555  
; Publication No. US20040254135A1  
; GENERAL INFORMATION:  
; APPLICANT: EVANS, RONALD  
; APPLICANT: XIE, WEN  
; TITLE OF INVENTION: MODULATION OF METABOLISM OF STEROIDS AND XENOBIOTICS  
; FILE REFERENCE: SALK3070-1  
; CURRENT APPLICATION NUMBER: US/10/482,555  
; CURRENT FILING DATE: 2003-12-30  
; PRIOR APPLICATION NUMBER: PCT/US02/21800  
; PRIOR FILING DATE: 2002-07-09  
; PRIOR APPLICATION NUMBER: 60/304,388  
; PRIOR FILING DATE: 2001-07-09  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 26  
; LENGTH: 33  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: oligonucleotide  
US-10-482-555-26

Query Match 2.5%; Score 33; DB 8; Length 33;  
Best Local Similarity 100.0%; Pred. No. 1.3e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1124 TAGAATATGAACCTCAAAGGAGGTAAGCAAAAGGG 1156  
|||||  
Db 1 TAGAATATGAACCTCAAAGGAGGTAAGCAAAAGGG 33

RESULT 17  
US-10-085-612-2  
; Sequence 2, Application US/10085612  
; Publication No. US20030096251A1  
; GENERAL INFORMATION:  
; APPLICANT: Guida, Marco  
; APPLICANT: Hall, Jeff  
; APPLICANT: Petros, William  
; APPLICANT: Vredenburgh, James  
; APPLICANT: Colvin, Oliver  
; APPLICANT: Marks, Jeffrey  
; TITLE OF INVENTION: Methods for Evaluating the Ability to Metabolize Pharmaceuticals  
; FILE REFERENCE: 4389-5-C1  
; CURRENT APPLICATION NUMBER: US/10/085,612  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/144,367  
; PRIOR FILING DATE: 1998-08-31  
; PRIOR APPLICATION NUMBER: 60/271,630  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2

```
; LENGTH: 34
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-085-612-2

Query Match      2.5%; Score 33; DB 5; Length 34;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1164 CGATTCTTGTCTACTGCTGCAGTCGAGCCCC 1196
|||||
Db 1 CGATTCTTGTCTACTGCTGCAGTCGAGCCCC 33

RESULT 18
US-09-925-065A-355066/c
; Sequence 355066, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 355066
; LENGTH: 416
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-355066

Query Match      2.5%; Score 33; DB 4; Length 416;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 217 ACATTGCATGTTCTCACTTATTGTGGGATCTA 185

RESULT 19
US-09-925-065A-320830
; Sequence 320830, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09

; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 320830
; LENGTH: 547
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-320830

Query Match      2.5%; Score 33; DB 4; Length 547;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 296 ACATTGCATGTTCTCACTTATTGTGGGATCTA 264

RESULT 21
US-09-925-065A-788756/c
; Sequence 788756, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09

; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 788706
; LENGTH: 567
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-728706

Query Match      2.5%; Score 33; DB 4; Length 567;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
|||||
Db 296 ACATTGCATGTTCTCACTTATTGTGGGATCTA 264
```

```
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 788756
; LENGTH: 572
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-788756

Query Match      2.5%; Score 33; DB 4; Length 572;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
Db 296 ACATTGCATGTTCTCACTTATTGTGGGATCTA 264

RESULT 22
US-09-925-065A-789136/c
; Sequence 789136, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-05-09
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 789136
; LENGTH: 575
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-789136

Query Match      2.5%; Score 33; DB 4; Length 575;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
Db 296 ACATTGCATGTTCTCACTTATTGTGGGATCTA 264

RESULT 23
US-09-925-065A-560023/c
; Sequence 560023, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
```

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; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 560023
; LENGTH: 581
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-560023

Query Match      2.5%; Score 33; DB 4; Length 581;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
Db 51 ACATTGCATGTTCTCACTTATTGTGGGATCTA 19

RESULT 24
US-09-925-065A-613685/c
; Sequence 613685, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 613685
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-613685

Query Match      2.5%; Score 33; DB 4; Length 590;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206
Db 280 ACATTGCATGTTCTCACTTATTGTGGGATCTA 248

RESULT 25
US-10-027-632-203073
; Sequence 203073, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
```

; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 203073  
; LENGTH: 1902  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-203073

Query Match 2.5%; Score 33; DB 5; Length 1902;  
Best Local Similarity 100.0%; Pred. No. 1.5e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 1019 ACATTGCATGTTCTCACTTATTGTGGGATCTA 1051

## RESULT 26

US-10-027-632-203073  
; Sequence 203073, Application US/10027632  
; Publication No. US20030204075A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.

; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; POLYMORPHISMS IN THE HUMAN GENOME  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; CURRENT FILING DATE: 2002-04-30

; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 203073  
; LENGTH: 1902  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-203073

Query Match 2.5%; Score 33; DB 6; Length 1902;  
Best Local Similarity 100.0%; Pred. No. 1.5e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 1019 ACATTGCATGTTCTCACTTATTGTGGGATCTA 1051

## RESULT 27

US-10-087-192-250/c  
; Sequence 250, Application US/10087192  
; Publication No. US20020182586A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David W.  
; APPLICANT: Engelhard, Eric K.  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR  
; TITRATION OF NOVEL COMPOSITIONS  
; FILE REFERENCE: 529452000122  
; CURRENT APPLICATION NUMBER: US/10/087,192  
; CURRENT FILING DATE: 2002-03-01  
; PRIOR APPLICATION NUMBER: US 09/747,377  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 2059  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 250  
; LENGTH: 370469  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-087-192-250

Query Match 2.5%; Score 33; DB 5; Length 370469;  
Best Local Similarity 100.0%; Pred. No. 1.8e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 158366 ACATTGCATGTTCTCACTTATTGTGGGATCTA 158334

## RESULT 28

US-10-719-993-6940  
; Sequence 6940, Application US/10719993  
; Publication No. US20040265849A1  
; GENERAL INFORMATION:  
; APPLICANT: CARGILL, Michele et al.

; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001496  
; CURRENT APPLICATION NUMBER: US/10/719,993  
; CURRENT FILING DATE: 2003-11-24  
; NUMBER OF SEQ ID NOS: 55342  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6940  
; LENGTH: 1790242  
; TYPE: DNA  
; ORGANISM: Homo sapiens

; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..-(1790242)  
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-;  
US-10-719-993-6940

Query Match 2.5%; Score 33; DB 8; Length 1790242;  
Best Local Similarity 100.0%; Pred. No. 1.9e-06;  
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 174 ACATTGCATGTTCTCACTTATTGTGGGATCTA 206  
|||||  
Db 360349 ACATTGCATGTTCTCACTTATTGTGGGATCTA 360381

## RESULT 29

US-09-864-761-1636/c  
; Sequence 1636, Application US/09864761  
; Patent No. US20030048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.

; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng



RESULT 32  
US-09-925-065A-723519  
; Sequence 723519, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT FILING DATE: 2001-08-08  
; CURRENT APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 723519  
; LENGTH: 1973  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-723519

Query Match 2.4%; Score 32; DB 4; Length 1973;  
Best Local Similarity 100.0%; Pred. No. 5.2e-06;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 175 CATTGATGTTCTCACATTATTGGGATCTA 206  
|||||  
Db 647 CATTGATGTTCTCACATTATTGGGATCTA 678

RESULT 33  
US-09-925-065A-807869  
; Sequence 807869, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT FILING DATE: 2001-08-08  
; CURRENT APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 807869  
; LENGTH: 569  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-807869

Query Match 2.2%; Score 30; DB 4; Length 569;  
Best Local Similarity 100.0%; Pred. No. 6.1e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164  
|||||

Db 25 CATTATGTTAGGTAATAAGCCAGGCACA 54

RESULT 34  
US-09-925-065A-804583/c  
; Sequence 804583, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT FILING DATE: 2001-08-08  
; CURRENT APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 804583  
; LENGTH: 571  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-804583

Query Match 2.2%; Score 30; DB 4; Length 571;  
Best Local Similarity 100.0%; Pred. No. 6.1e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164  
|||||  
Db 545 CATTATGTTAGGTAATAAGCCAGGCACA 516

RESULT 35  
US-09-925-065A-741196/c  
; Sequence 741196, Application US/09925065A  
; Publication No. US20050228172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single  
; Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT FILING DATE: 2001-08-08  
; CURRENT APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 741196  
; LENGTH: 574  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-741196

Query Match 2.2%; Score 30; DB 4; Length 574;  
Best Local Similarity 100.0%; Pred. No. 6.1e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 135 CATTATGTTAGGTAATAAATAGCCAGGCACA 164
      |||||||
Db 545 CATTATGTTAGGTAATAAATAGCCAGGCACA 516

RESULT 36
US-09-925-065A-798807/c
; Sequence 798807, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR FILING DATE: 2000-11-20
; PRIOR FILING DATE: 2000-11-30
; PRIOR FILING DATE: 2001-01-16
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 798807
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-798807

Query Match 2.2%; Score 30; DB 4; Length 600;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAATAGCCAGGCACA 164
      |||||||
Db 106 CATTATGTTAGGTAATAAATAGCCAGGCACA 77

RESULT 37
US-09-925-065A-852923/c
; Sequence 852923, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR FILING DATE: 2000-11-20
; PRIOR FILING DATE: 2000-11-30
; PRIOR FILING DATE: 2001-01-16
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 852923
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-852923

Query Match 2.2%; Score 30; DB 4; Length 600;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAATAGCCAGGCACA 164
      |||||||
Db 106 CATTATGTTAGGTAATAAATAGCCAGGCACA 77

RESULT 38
US-09-925-065A-852924/c
; Sequence 852924, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 852924
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-852924

Query Match 2.2%; Score 30; DB 4; Length 600;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAATAGCCAGGCACA 164
      |||||||
Db 106 CATTATGTTAGGTAATAAATAGCCAGGCACA 77

RESULT 39
US-09-925-065A-745142/c
; Sequence 745142, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 745142
; LENGTH: 601
; TYPE: DNA
```



```
; ORGANISM: Homo sapiens
US-09-925-065A-745142

Query Match      2.2%; Score 30; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 177 TTGCATGTTCTCACTTATTGTGGGATCTA 206
      |||||
Db 55 TTGCATGTTCTCACTTATTGTGGGATCTA 26

RESULT 40
US-09-925-065A-748584/c
; Sequence 748584, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 748584
; LENGTH: 608
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-748584

Query Match      2.2%; Score 30; DB 4; Length 608;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164
      |||||
Db 114 CATTATGTTAGGTAATAAGCCAGGCACA 85

RESULT 41
US-09-925-065A-821617/c
; Sequence 821617, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
```

```
; SEQ ID NO 821617
; LENGTH: 608
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-821617

Query Match      2.2%; Score 30; DB 4; Length 608;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164
      |||||
Db 114 CATTATGTTAGGTAATAAGCCAGGCACA 85

RESULT 42
US-09-925-065A-821618/c
; Sequence 821618, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 821618
; LENGTH: 608
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-821618

Query Match      2.2%; Score 30; DB 4; Length 608;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 CATTATGTTAGGTAATAAGCCAGGCACA 164
      |||||
Db 114 CATTATGTTAGGTAATAAGCCAGGCACA 85

RESULT 43
US-10-322-281-10
; Sequence 10, Application US/10322281
; Publication No. US20040126762A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc S. Malandro
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001000
; CURRENT APPLICATION NUMBER: US/10/322,281
; CURRENT FILING DATE: 2002-12-17
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 152759
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(152759)
```

; OTHER INFORMATION: n = A,T,C or G  
US-10-322-281-10

Query Match 2.2%; Score 30; DB 7; Length 152759;  
Best Local Similarity 100.0%; Pred. No. 7.4e-05;  
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 177 TTGCATGTTCTCACTTATTGTGGATCTA 206  
|||||  
Db 149989 TTGCATGTTCTCACTTATTGTGGATCTA 150018  
|||||

Search completed: January 11, 2006, 07:58:02  
Job time : 1254 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 05:12:36 ; Search time 349 Seconds  
(without alignments)  
3121.441 Million cell updates/sec

Title: US-09-869-169C-19  
Perfect score: 1346  
Sequence: 1 ggaagcaactacatgtcca.....gaagaaggcaagtgcgatg 1346

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 6038814 seqs, 404674181 residues

Word size : 30

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database : Published\_Applications\_NA\_New.\*  
1: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
2: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*  
5: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
7: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*  
8: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq2.\*  
9: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq3.\*  
10: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
-----					
No matches found					

Search completed: January 11, 2006, 08:03:51  
Job time : 349 secs

**THIS PAGE B. A. JK (USF10)**